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University of Alberta
Alumni Association

Spring 1988

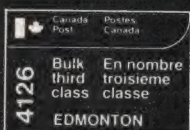
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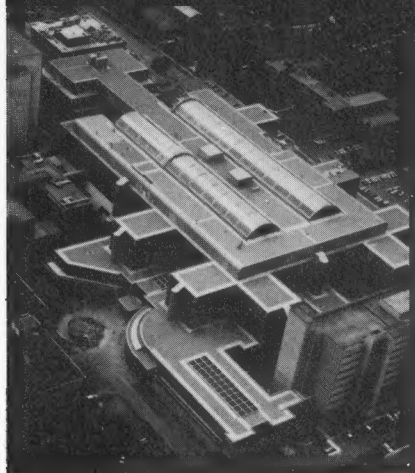
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University Hospital, 1913

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NEW TRAIL

In this issue, which is devoted to the Faculty of Medicine on its 75th anniversary, are the names of a number of men who have made historic contributions to the Faculty—Collip, Shaner, Scott, Mackenzie and others. But it is a remarkable woman who first comes to my mind in connection with the Faculty's history.

Leone McGregor Hellstedt was not only the University's first female medical graduate but the Faculty of Medicine's very first graduate. The only female in the first class to complete medical schooling entirely at the U of A, she graduated in 1925, when degrees were handed out "ladies first."

Leaving Alberta, she went on to further study at the University of Minnesota and fellowships took her on to post-doctoral training in pathology at Harvard and in Germany. In the course of her research she published new and original work relating to kidney microstructure and disease.

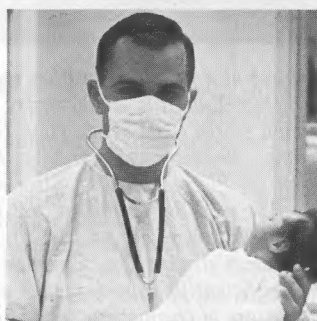
In 1932 she married a Swedish economist and settled in Stockholm, raising a son and a daughter, who followed

her into medicine. After the Second World War, she studied psychoanalytic medicine and continued its practice until her retirement. During her 50-year career, Dr. Hellstedt vigorously promoted the cause of women in medicine and served a term as president of the Medical Women's International Association.

I met this remarkable person in May 1977, when I was looking after media arrangements for convocation, and she received an honorary degree. I found her to be fascinating and gracious and was saddened to learn of her death only months later. I continue to think of her as a personal link to the first years of this University.

In the past months, my link to the Faculty of Medicine has been Dr. Adrian Jones, associate dean (faculty affairs). I greatly appreciate his assistance in gathering material for this special issue reflecting on his Faculty's past, present and future.

Rick Pilger
Editor



In the Footsteps of the Pioneers 7

Some of today's important medical research taking place on campus owes much to the groundbreaking work of the University's medical pioneers.

Beyond the Child Hatchery 15

The care of premature and at-risk infants has come a long way since the days when a "child hatchery" was brought to Coney Island.

A Focussing of Idealism 18

An Alberta-wide program initiated by medical students is designed to greatly reduce accidental poisoning in the home.

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Cover

Who would have thought a brother could be so much fun? Two-week-old Brandon Sommert entertains Mom and three-year-old sister Shala in the University of Alberta Hospital's neonatal intensive care unit

Cover photo by R. Siemens



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New Trail is published four times per year by the University of Alberta Alumni Association.
ISSN: 0824-8125 Copyright 1988

Achievements Recognized

In late November the University conferred degrees totalling just one short of 1,500 at its annual Fall Convocation, which for the first time ever was spread over two days.

During the Convocation, which took place on Thursday, November 19 and Saturday, November 21, the Faculty of Graduate Studies and Research presented more graduands (446) than did any other faculty.

Among the many present to receive their degrees, were four prominent individuals who were conferred honorary degrees in recognition of their various contributions to society.

On the first day of Convocation honorary degrees went to investment counsellor Stephen Jarislowsky and renowned chemist Allan S. Hay, a University of Alberta alumnus.

Mr. Jarislowsky, who gave the convocation address, founded the Montreal investment counselling firm of Jarislowsky and Fraser in 1955. He now has direct management of \$4 to \$5 billion in pension funds and advises corporations whose funds exceed \$6 billion. An active community member, Mr. Jarislowsky is a member of the executive council of the Canadian Chamber of Commerce.

Allan Hay, a '50 BSc and '52 MSc graduate of the University, is described by the management of General Electric as the company's "most important inventor since Thomas Edison." The former research and development manager of GE's chemical laboratories in Schenectady, New York, Dr. Hay holds more than 55 patents and has published some 50 scientific papers. In awarding him its prestigious Achievement Award in 1984, the U.S. Industrial Research



Present at a post-Convocation reception honoring Allan Hay was Professor Emeritus of Chemistry Walter Harris, '38 BSc, '39 MSc, shown seated (left) beside Hay. Standing are (left to right) S.G. Davis, '39 BSc(Eng), '40 MSc; Dalton MacWilliams, '50 BSc; Leon St. Pierre, '51 BSc; Alberta St. Pierre, '50 BSc; John Todd, '51 BSc; and R.J. Crawford, '52 BSc. The St. Pierres are from Montreal, where he is a McGill chemistry professor; MacWilliams is a scientist with Dow Chemical in California; Todd is president of Fisher Scientific Canada; and Davis and Crawford are emeritus professors of chemistry at the U of A. All, except Davis, studied under Harris.

Institute cited his leadership in "creation of new and exciting families of engineering materials that have had widespread commercial impact on transportation, industry, the office and the home." Now retired from GE, Dr. Hay has (with GE support) established a research group at McGill University.

On the second day of Fall Convocation, honorary degrees went to two well-known Edmontonians: Alberta Special Projects Minister Neil Crawford and musician Tommy Banks.

The Honorable Neil Crawford has served at the federal, provincial and municipal levels during a political career that began in 1961 when he became an executive assistant to Prime Minister John Diefenbaker. He was first elected to the Alberta legislative assembly in 1971 and has since held a number of cabinet posts. He was recently named minister for special projects.

Tommy Banks, who delivered Saturday's convocation address, heads

the music program at Grant MacEwan Community College, Edmonton and has been described as one of the most knowledgeable musicians in North America. A native Albertan, he began his career as a pianist at the age of 14 and has been involved in several forms of music since then, including rock and roll (he formed Edmonton's first rock band), jazz and classical. He has collaborated with such musicians as Paul Anka, Cleo Laine, Chicago, Kris Kristofferson, Nana Mouskouri, and Tina Turner.

Constitutional Studies Centre Established

A Centre primarily devoted to research into constitutional law and policy began its activities in the Faculty of Law early this academic year.

The Centre for Constitutional Studies was

established to encourage research of an interdisciplinary and comparative nature relating to constitutional and human rights issues. It hopes to attract scholars from a variety of disciplines, including sociology, economics, history, political science, public administration, and the law.

Research will be complemented by an education program.

The Centre is planning its first major event for May 6 and 7, 1988. At that time it will sponsor a national conference on Senate reform.

Scholarships Named for Presidents

New scholarships recently announced at the University will perpetuate the names of the two University of Alberta graduates who have served the University in the office of president.

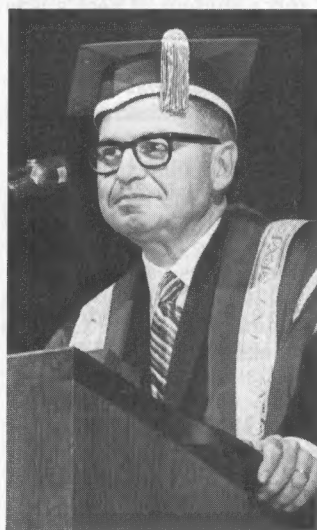
In late October the University's Graduate Students' Association announced the establishment of the Myer Horowitz Graduate Students' Scholarships to recognize "the valuable contribution Myer Horowitz has made to the graduate student community, as a former graduate student, professor and now president of the University of Alberta."

Some weeks later, President Horowitz introduced scholarships in honor of the first University of Alberta graduate to become the University's president, Max Wyman, '37 BSc, of Edmonton.

Five Max Wyman Undergraduate Entrance Scholarships have been established. Valued at \$5,000 each, they will be available, based on merit, to any person entering any undergraduate faculty at the University. Academically,

candidates are to be among the top one per cent of all applicants for University admission, and attention will be paid to extra-curricular and community involvement.

The Horowitz Graduate Scholarships, which have an initial value of \$1,000, will be awarded for the first time in September. They are intended for graduate students who do not hold a major award. They were initiated by a \$30,000 grant



President Wyman addresses convocation during his inauguration, 1969.

from the GSA which is being matched on a \$2-to-\$1 basis by the provincial government. In addition, the GSA has committed itself to donating a further \$2,000 annually.

Both scholarship programs are being administered by the University's Student Awards Office.

Professor Honored

Early this year Murray Klamkin made a special trip to Atlanta, Georgia.

The U of A professor of mathematics headed south to receive the Award for Distinguished Service to Mathematics for 1988. The Distinguished Service Award is presented annually by the Mathematical Association of

Around and About

■ The University's Faculty of Extension is really taking its slogan—"Extend Yourself"—to heart. It's extending itself all the way to Africa, where the Faculty's science and technology unit will mount a two-week water technology course at the University of Khartoum, Sudan. The course, scheduled for early May, is being offered in co-operation with the World University Service Canada, the University of Khartoum, the World Bank and the African Medical Research Foundation. About 25 senior, experienced African engineers and professionals are expected to attend the course, which may be the first of a series of similar collaborations between the Faculty of Extension, other agencies, and Third World countries.

■ The University's department of athletics and the Golden Bear Hockey Alumni Association recently announced the creation of the Clare Drake Awards to recognize the combination of athletic and academic achievement. Up to ten of the \$1,500 awards in honor of the long-time Golden Bear hockey coach will be made each year to current members of the hockey team.

■ U of A Professors Peter Pang (physiology) and Larry Wang (zoology) have received an industry-university award from the Natural Sciences and Engineering Research Council of Canada. It's part of a new NSERC program that matches funding provided by industry—in this case the industry funding comes from Taiho Pharmaceutical of Japan which is supporting the professors' investigation of Chinese herbal medicines used to treat cardiovascular diseases.

■ Louis Jamernik, formerly comptroller at the University of Western Ontario, has been named to the new position of associate vice-president and comptroller at the U of A.

■ A conference focussing on the importance of university research to Canada's economic and social well-being is attracting some of the most

influential residents of Canada's business, political and academic worlds. Entitled "University Research and the Future of Canada," the April conference is being organized in honor of J. Gordin Kaplan, who served as the U of A's first vice-president (research).

■ The University's dean of medicine, Douglas Wilson, has been appointed a member of the Medical Research Council of Canada for a term of three years.

■ A plaque was recently unveiled in the Earth Sciences Building on campus to identify the John Dawson Newton Soil Science Collection. The collection, which features a number of soil monoliths assembled in 1927 for the first International Congress of Soil Science, honors the late U of A professor who was a moving force behind the establishment of the Alberta Soil Survey, and the University's Breton Plots.

■ Terry White has left his position as dean of the U of A Faculty of Arts. Sociologist White is taking an administrative leave prior to his assumption of the presidency of Brock University in St. Catherine's, Ontario on July 1, 1988. In White's absence, Economics Professor Tom Powrie will fill in as acting dean until a new dean is appointed in July.

■ University Professor Norbert Morgenstern and his former doctoral student W. Savigny, now of the University of British Columbia, were recently named co-recipients of both the Roger J.E. Brown Memorial Award for outstanding contributions to permafrost science and engineering and the Thomas Roy Award recognizing contribution to engineering geology in Canada.

■ The University's Office of Native Student Services has published a Native Women's Resource Directory to serve as "a valuable source of reference for individuals or groups seeking information pertaining to Native women in particular, and the Native community in general."

■ Geology Professor Nat Rutter has been elected to a four-year term as president of the International Union of Quaternary Research (INQUA). He is the first Canadian to be elected to that body's executive committee.

■ Professor of Music Malcolm Forsyth was a 1987 recipient of a Juno Award from the Canadian Academy of Recording Arts and Sciences. Along with Donald Steven of McGill University, Dr. Forsyth was a co-winner in the "best classical music composer" category.

■ In recognition of his "very major accomplishments as a research scientist," R.C. von Borstel, U of A professor of genetics, was awarded an honorary DSc degree at the fall convocation of Ontario's York University, which awards only one honorary degree at each convocation. Dr. von Borstel was one of the pioneers in the field of radiation genetics and one of the principal designers of the first genetic experiments to be carried out under zero gravity in the NASA Biosatellite Program.

■ The University's current writer-in-residence, Leona Gom, has been awarded the Ethel Wilson Fiction Prize for her novel *Housebroken*, (NeWest, 1986). The prize is awarded annually for the best work of fiction by a British Columbia author.

■ In late November University President Myer Horowitz was presented the Lieutenant Governor's Award by the Hon. Helen Hunley. The award is sponsored by the Alberta chapters of the Institute of Public Administration of Canada to recognize outstanding contributions to public administration.

■ Charles Hart, a first-year doctoral student in the U of A department of secondary education, was the winner of the 1987 Ted Aoki Award. The award (and \$1000) were presented to him by *The Journal of Curriculum Theorizing*, at a conference in Dayton, Ohio.

America to recognize an individual whose contributions have significantly influenced "the field of mathematics or mathematical education on a national scale." ("National scale" does not refer to any particular nation.)

Dr. Klamkin has taught at the University of Alberta since 1976. He began his professional career in 1948 at the Polytechnic Institute of New York and then taught

at Buffalo, the University of Waterloo, and the University of Minnesota before becoming principal research scientist for the Ford Motor Company in 1965. He returned to the University of Waterloo in 1974 and came to the U of A as chairman of the mathematics department two years later.

From 1975 to 1984, Dr. Klamkin coached the U.S.A. International Mathematics Olympiad team.

Business Profs Gain Teaching Awards

Dr. Ray Rasmussen, a professor of organizational analysis in the University's Faculty of Business is the Faculty's second professor in two years to be awarded a coveted 3M Teaching Fellowship.

Only 10 professors in

Canada are selected each year for the award, which was created in 1986 by the University of Waterloo's Society for Teaching and Learning in Higher Education with support from 3M Canada Inc.

Last year, Roger Beck, from the Faculty's marketing and economic analysis department was a winner, and Business Dean Roger Smith notes that in 1986 Eileen Gillese, one of the Faculty's BComm graduates and a student of Beck's was also awarded the Fellowship. Professor Gillese, who was Canada's first woman Rhodes Scholar, is now teaching at the University of Western Ontario's Law School.

A major benefit of the 3M Fellowship is an all-expenses-paid trip to an exclusive three-day teaching seminar held at the Chateau Montebello in Quebec.

Donation to Library Science

The Alexander Consulting Group Limited has given a major endowment to the Faculty of Library Science.

On January 27, 1988, Brian E. Kennedy, president and CEO of The Alexander Consulting Group Limited was in Edmonton to present a cheque to the Library Science Faculty's acting dean, Sheila Bertram. The \$5,000 cheque is the first of three which the company will be donating annually to the Faculty. With matching government grants, the endowment is expected to grow to \$60,000 by 1990.

It is the company's desire to have the proceeds from The Alexander Consulting Group Endowment Fund help to bridge the gap between business and libraries through information technology. Although the Dean will have final discretion over the use of the funds, proceeds may be used for computer hardware and other specific products.



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Canada

On Tuesday, May 14, 1912 the graduating class of the University of Alberta assembled for the first formal convocation ceremony of the fledgling university. A year earlier graduation ceremonies had been held for a handful of students, but the Class of '12 was the University's first authentic graduating class and the convocation reflected that.

For the University it was a coming-of-age of sorts, and in a robust spirit the institution set about fulfilling plans for expansion—a buoyant faith in the future of the young province naturally leading to the creation of professional schools. Law had its beginning in 1912, and applied sciences was given its own life the following year. And in that same year, 1913, the Faculty of Medicine came into existence as the fourth faculty of the University, offering a three-year course of basic instruction which preceded a final two clinical years elsewhere.

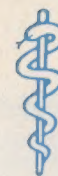
The early interest in medicine at the University of Alberta is understandable, given not only the expressed need for physicians to serve the rural areas of the province (how little things change!) but the early involvement of members of the medical profession in the life of the University. Prior to the opening of the University in 1908, all graduates of Canadian or British universities who were resident in Alberta were invited to register as members of convocation. Convocation as thus instituted consisted of 364 members—104 of them, medical doctors.

When the University of Alberta introduced medical instruction in 1913, there were seven medical schools in Canada, but none west of Winnipeg. Records show that 26 students constituted the University of Alberta's first class in medicine and that "arrangements were perfected to carry them through at least three years of a five-year course with the privilege of being transferred, if necessary, with full standing to certain eastern universities." During the period 1913 to 1922 about 150 students completed the three-year program in basic medical sciences and were admitted with advanced standing to McGill, Toronto or Manitoba.

In 1920 the Rockefeller Foundation made a gift of \$100 million for the improvement of medical education in the United States and Canada. Of this, the University of Alberta received \$500,000, which generated an annual income of \$25,000—a not inconsiderable sum at the time. The donation coincided perfectly with the University's move to offer the final clinical years of the MD program; the Rockefeller income helping to pay the added teaching staff necessary.

In the Footsteps of the Pioneers

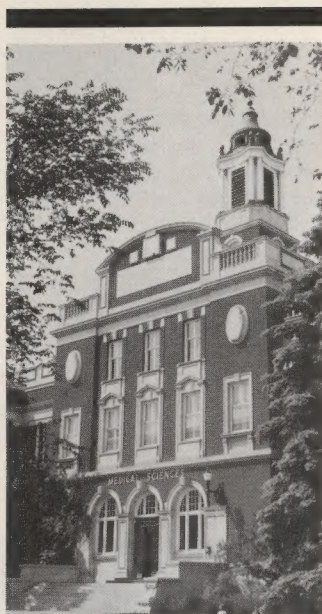
By Adrian Jones and Gerald Higgins



Faculty
of Medicine
75th
Anniversary

preparing
Physicians
for
the Future





Above: Opened in 1916 and expanded at various times, the original Medical Sciences Building (now the Dentistry/Pharmacy Centre) saw many generations of medical students pass through its doors.

Below Right: The Faculty of Medicine now has its administrative offices in the ultra-modern Walter C. Mackenzie Health Sciences Centre, named for a former dean. This photograph shows a view of one of the two atria which run the length of the hospital complex.

The first class to receive MD degrees from the University of Alberta convoked in 1925. Many would follow them. Graduation statistics show that 3,387 persons have to date received MD degrees from the University's Faculty of Medicine. The Faculty has also awarded the degree of Bachelor of Sciences in Medicine 360 times and the Bachelor of Medical Sciences degree on 906 occasions.

The years of the Great Depression and the Second World War left their marks on the history of the Faculty, but it was not until the end of the War that the next major development in the life of the Faculty occurred—the expansion in research. There had, of course, been research conducted previously; some of it quite significant (in his history of the Faculty of Medicine published in 1963, John W. Scott singles out R.F. Shaner's important research on the embryology of the heart; the work of A.W. Downs and N.B. Eddy in physiology and pharmacology; the valuable research in anesthesia conducted by Samuel Gelfan who, with I.R. Bell, was first to use divinyl ether as an anesthetic on human subjects; and the very major contributions of biochemist James B. Collip) but it was in the quarter century beginning in 1946 that medical research came into its own at the University of Alberta. This period saw the introduction of graduate programs, a sizeable increase in the number of full-time faculty members, and a concomitant blossoming of research.

While the '70s and '80s have brought their

changes—not the least evident being the remarkable improvement in physical facilities—research, along with teaching and public service, remains a mainstay of the Faculty of Medicine as it enters its 76th year. While some of this research heads in directions undreamed of in earlier years, a surprising amount follows firmly in the footsteps of the Faculty's research pioneers. In the remainder of this article, we will follow two of the threads that connect some of the earliest medical research undertaken at the University with some of the most up-to-date.

The Calcium Connection

Of the scores of minerals essential to the proper functioning of the human body, few play as broad a role as does calcium. While we may be most apt to associate this mineral with strong bones and teeth ("Now don't forget to drink your milk!") calcium, in particular ionized calcium, is vitally important to a large number of body processes. These include coagulation of blood, activation of enzymes, maintenance of the integrity of cell membranes, and the functioning of the nerves, muscles and heart.

In keeping with this importance to life processes, the body regulates few ions more diligently than it does calcium. The concentration of ionized calcium in blood and tissues is maintained within a very narrow range by an elaborate system of checks and balances. This regulation involves, among other things, Vitamin D, calcitonin, and the hormone secreted by the parathyroid gland.

From its early days the University of Alberta has had researchers interested in calcium metabolism. Dr. James Collip, the first chairman of the University's biochemistry department, was, in 1925, the first to successfully extract the active principle from the parathyroid glands. Today, a University of Alberta team including Dr. Chuck Harley ('65 MD) and Dr. Tom Overton, a medical physicist who studied at Leeds University, are investigating another important aspect of calcium metabolism related to the bone: the development of osteoporosis in elderly women and, in particular, the measurement of bone mass using computer tomography.

Dr. Collip, who initiated the interest in calcium studies at the University, was born in Belleville, Ontario in 1892. In 1907 (only 15 years old) he entered Trinity College of the University of Toronto in a new honors program in physiology and chemistry. By 1916 he had received his doctorate in biochemistry and joined the fledgling Faculty of Medicine at the University of Alberta. His laboratory



facilities in the University's Old Power Plant may have been rather primitive, but the following year he published an important review article on what was then a relatively new field—internal secretions—in the Canadian Medical Association Journal.

Five years later, in 1921, he took a sabbatical leave funded by a Rockefeller Travelling Fellowship and returned to the University of Toronto. In the fall of that year he was invited by Banting, via Macleod (the professor of biochemistry), to work on the Toronto team engaged in the study of insulin. When Collip arrived Banting and his team had only a crude, uncertain pancreatic extract with which to work; in a remarkably short time the University of Alberta biochemist had refined the technique of insulin extraction to such a degree that the extract could be used in the first human patients. (Eventually the process was patented in the names of the three principal researchers—Banting, Macleod and Best—and given to the University of Toronto.)

As a result of this collaborative work on the discovery of insulin, Banting and Macleod were awarded the Nobel Prize. In accepting, Banting shared his Prize with Best, and Macleod shared his with Collip. There was considerable personal friction among the group, however, and Collip returned to the University of Alberta, where he was appointed chairman of the new biochemistry department. (Fuelled by this friction, controversy about the exact contributions made by each of the members of the insulin team thrived and continues to this day.)

Upon returning to Alberta, Collip initially dedicated himself to work with glucokinase, a

plant hormonal product with apparent hypoglycemic properties in animals—the hope was that this would be a vegetable-based alternative to insulin. However, at the same time he was working on extracting the active principle from the parathyroid glands.

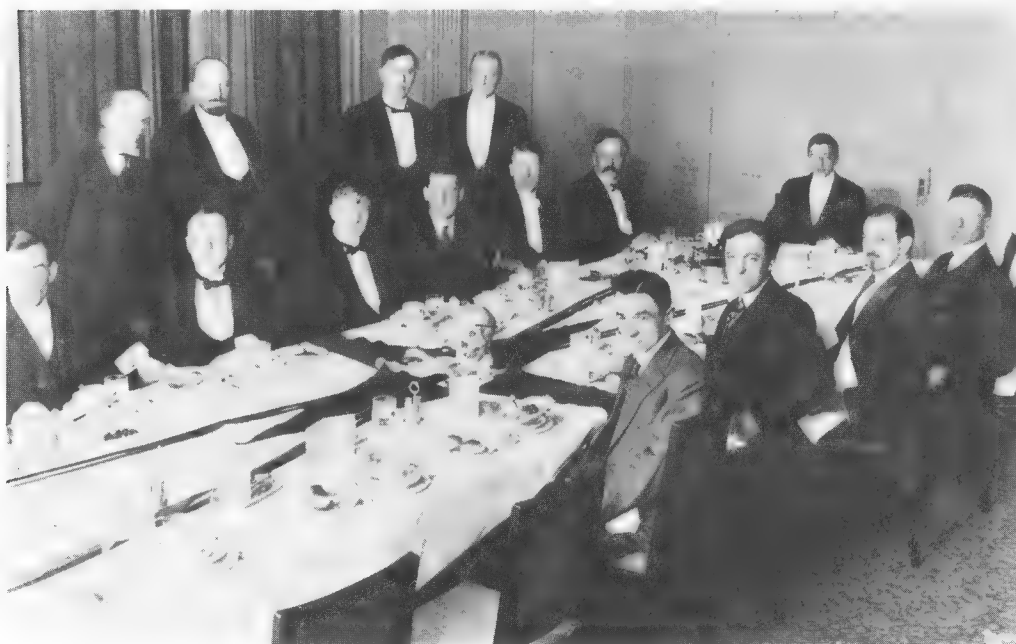
In 1925 Collip published his successful method of extracting parathyroid hormone, which he named parathormone, and the University of Alberta's Dentistry/Pharmacy Centre (then the Medical Building) was the site of the first injection ever of purified parathyroid hormone. Not only would this hormone control tetany—a condition involving muscle spasms due to abnormal calcium metabolism—in dogs from which the parathyroid glands had been removed, it could cause high blood calcium rates in such dogs, as it would in normal dogs, if given too frequently or in excess. Collip subsequently wrote in one of his publications that "it is possible that this hormone will have many practical uses." He went on to say, "Calcium metabolism enters into many medical problems..." (Perhaps more than even he dreamt of!)

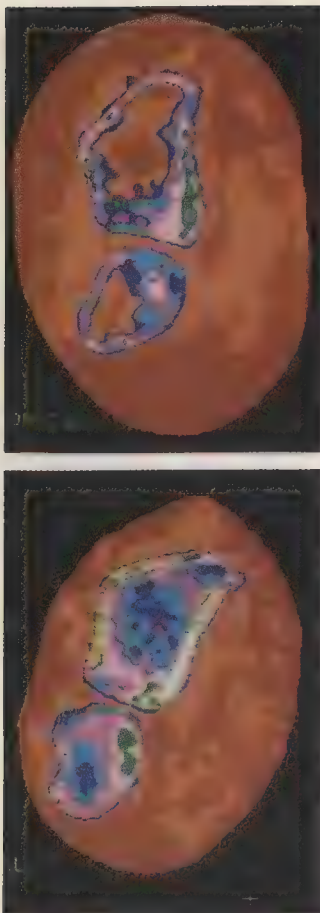
In 1929, four years after publishing his milestone parathormone paper, Collip left Alberta to go to McGill where he remained until 1947, at which time he became dean of the medical faculty of the University of Western Ontario, serving there until 1961. He died in 1965, after an effective, productive career, and has considerable claim to be considered the outstanding Canadian biochemist. In fact, when the Alberta Medical Association put together a history of Collip, it described him as "Canada's most distinguished medi-



Above: James Collip in a 1929 photograph.

Below Left: The Medical Class of 1919 photographed at their class dinner in 1917. Seated on the far side of the table, extreme right, is Dr. Tory. The person three places to Tory's right may well be Collip, who arrived at the University a year earlier. (Note the table centrepiece.)





The above images are typical of CT Scans taken of the forearm. The image at the top shows significant osteoporosis when compared to the normal scan below.

cal scientist of the 20th century."

Following in Collip's footsteps are Harley and Overton, whose interest in calcium metabolism relates to bone. Bones are, of course, fundamental to the body—they are its framework and its levers, they protect our internal organs, and they are reservoirs for essential minerals (calcium prominent among these). In particular today's researchers are concerned with osteoporosis—that post-menopausal, age-related bone degeneration long considered to be an inevitable and untreatable concomitant to aging, leading to the stereotypical picture of the "little, hump-backed old lady."

Osteoporosis is a serious and major problem of the elderly, and increasingly so as the population of Alberta (and Canada) is aging. Current estimates are that 12 per cent of the population will be 65 years of age or older by the year 2000. (It should be noted that despite the strong association with the elderly, osteoporosis is not limited to the aged. The term "osteoporosis" was first used to describe the reduced bone density evident on a radiograph—x-ray picture—and is now used in a broader sense to describe the generalized reduction in bone density resulting from a wide variety of causes, not all age-related.)

In the past, qualitative estimates of the degree of osteoporosis were made on the basis of the bone density in plain radiographs of the skeleton. As some 30 to 50 per cent of bone mass must be lost before the loss is evident on plain x-rays, it is obvious that such evaluations are not of much use in the early detection of bone loss. While various quantitative methods have been employed to give earlier detection, today the most useful and preferred method is computed tomography (CT Scan), as it has the capacity to evaluate both cortical (outer edge) and compact (structural) bone at various skeletal sites with sufficient precision to monitor the bone mass over time, in health and disease, without painful injection or the use of radioactive isotopes.

As a result of studies by Harley, Overton and their colleagues around the world, a much clearer understanding of the dynamic nature of the skeleton has emerged, especially relating to the nature and functioning of trabecular bone (the marrow bone). It is now recognized that there is a constant remodelling process taking place which replaces old (probably damaged) bone with new bone over about a four-month period. During the remodelling, bone is first resorbed by multinucleate giant cells (called osteoclasts), there is then a reversal phase, succeeded in turn by bone matrix reformation (by bone cells called osteoblasts), and this is followed by reminer-

alizing of the newly formed bone. This entire process is spread over a period of approximately 100 to 120 days.

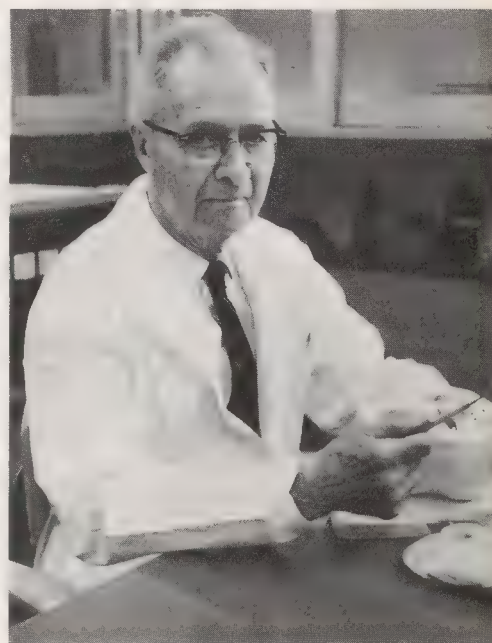
The evidence is that normal mechanical use of bone in everyday activity accumulates microdamage to the bone interior, and this acts as one trigger for the remodelling process. Present research is examining the effects of Vitamin D, calcium and other minerals, and hormones in protecting the bone against ravages of age which result in severe and crippling osteoporosis. While this work may seem far removed from the experiments carried out so many years ago in the University Power Plant and later the Medical Building, the fact remains that the advances in knowledge today are firmly rooted in discoveries made more than 60 years ago by James Collip.

A Journey of the Heart

In its frequently quiet and understated manner, the University of Alberta has been a leader in affairs of the heart for more than 60 years. From pioneering work which provided the most basic of information about heart function and disease to the modern-day wizardry of heart transplants, the Faculty of Medicine has had a journey of the heart well worth recording.

The first great milestone on that journey is the coming to Alberta in 1921 of Ralph Shaner, professor of anatomy. Shaner, a Harvard graduate, had been recruited from Harvard by Henry Marshall Tory himself. The new anatomy professor soon showed

Ralph Shaner with a heart model, circa 1965.



himself to be another example of the first president's talent for finding the right person for the job.

Shaner quickly became identified as a superb teacher, one of the best that the anatomy department ever had, and taught every medical student who graduated with an MD from 1921 until the mid-'60s. He was also dedicated to his research, which centred on the embryology of the heart—how did the heart develop and how and when did it go awry to produce defects which might range from inconsequential to fatal? He pursued these questions with the assistance of Alberta farmers, and students in anatomy will recall the many glass bottles containing pickled pig hearts collected from rural communities around Edmonton. It has been estimated that Shaner did something like 50,000 pig embryo dissections over the years.

Shaner's world class research contributed enormously to the understanding of cardiac defects. It also provided a background for the development of clinical cardiology in Edmonton hospitals.

Close to the time that Professor Shaner was retiring, Dr. John Scott, emeritus dean of the Faculty of Medicine, published a book describing the first 50 years of the Faculty. In the book he speculates on the next 50 years and asks of the year 2013 (the Faculty's centenary): "Will our knowledge of immunology and the perfection of surgical skills have reached a point where transplantation of organs and limbs will be an everyday procedure in the operating room?" In fact, recruitment under Dr. Scott's leadership was already paving the way for that time, and fewer than five years after he posed his question, kidney transplants were becoming routine in the University Hospital.

Some years before Scott pondered the mysteries of the future, another milestone in the Faculty's journey occurred. In 1953 Robert Fraser ('44 BSc, '46 MD, '50 MSc), later to become chairman of the department of medicine, returned to his alma mater to join Joe Dvorkin ('41 BA, '43 MD) in establishing Alberta's first laboratory for invasive cardiology investigation. They gained information about their patients by inserting catheters into the heart along a vein from the groin or other access point. The procedure was relatively new and certainly dangerous. Without it, however, diagnosis for surgically repairable lesions was tenuous and unreliable.

By 1956, Dr. John Callaghan—who thirty years later would be awarded the Order of Canada for his contributions to this country—had assembled his surgical and research team at the University. In the fall of

that year the team members made headlines when they performed their first open heart surgery. In December of the same year they performed the first "blue baby" operation in Canada to repair cross-circulation problems in the heart of 18-month old Sherry Anderson, who now lives in British Columbia and has her own family.

In March of 1986, Callaghan's team celebrated open heart operation number 7,000. Conditions then were vastly improved from those of the '50s. In those early years much basic research related to the anatomy of the heart defects remained to be done, and there were many technical problems associated with both the surgery itself and the heart-lung machines. In addition, puzzles related to the metabolic support of the patients had to be solved.

The base of knowledge grew rapidly, however, and as it did the cardiology and cardiac surgery groups grew in size and sophistication. From the primitive equipment acquired or jury-rigged by Fraser and Dvorkin to the relative sophistication of the present day has indeed been a multi-generation leap.

The ability to quickly and accurately measure pressure inside the various chambers of the heart, to monitor oxygen saturation and the electrical conductance pattern, and to image the heart, its walls, valves and arteries by multiple means has laid the groundwork for the most recent step: Dennis Modry ('71 BSc, '73 MD), who had trained at Stanford University, which has the world's most successful heart transplant program, convinced the University Hospital and the Alberta government of the soundness of a heart transplant program, and in 1986 Modry's team conducted the first such operation ever done in western Canada.

That historic surgery took place fewer than 25 years after Scott's gaze into the future. As the former dean so appropriately identified, understanding of the immune system and new drugs to control immune activity had to go hand-in-hand with surgical advances. The development of immunosuppressant drugs to keep transplanted organs alive and functioning in a totally normal fashion is the other side of the heart transplant story. But that's another journey . . . ■

The authors are senior members of the University's medical faculty. Dr. Adrian Jones, '63 MD, who traced the journey of the heart, is a professor of pediatrics and serves as the Faculty of Medicine's associate dean (faculty affairs). Dr. Gerald Higgins, a Bristol graduate who serves as the Faculty's chairman of community medicine, followed the calcium connection.



The operating table wizardry of heart transplant surgeon Dr. Dennis Modry and his colleagues (above and page 7) owes much to the work of the Faculty's medical pioneers, including Shaner, Fraser, Dvorkin, and Callaghan.

Homecoming Emphasizes Reunions

The emphasis is very much on reunions this year at the Alumni Association's annual homecoming, scheduled for September 22 to 24, 1988.

While the graduates of the special anniversary classes will still be in the limelight, Reunion Weekend '88 is being promoted as a homecoming for all U of A graduates.

The name itself—Reunion Weekend '88—reflects the Association's commitment to assist in the organization of class (and other) reunions to make the homecoming event even more enjoyable for all who take part.

This year the fun-filled and memory-provoking weekend commences with two registration events scheduled for the evening of Friday, September 22. In Dinwoodie Lounge a dance is being organized with the graduates of 1963 to 1987 in mind. For those who might prefer a quieter kickoff to the weekend, a reception at the campus Faculty Club will be an ideal place to share memories and get reacquainted with friends of days past.

On Saturday, September 23, a busy day (a variety of campus tours, a special luncheon, and other activities yet to be announced) will climax with the Reunion Weekend '88 Dinner and Dance, at which the special classes will be honored.

Among the special classes this year are the Diamond Class of 1928, the Golden Graduates of 1938 and the Silver Class of 1963. On Sunday, September 24, the Gold and Diamond Classes will be joined by graduates of the Class of 1923 at a brunch given in their honor by the president of the University and his wife, Dr. and Mrs. Myer Horowitz.

The Reunion weekend will

provide an ideal opportunity for all U of A graduates to get together to share memories and renew friendships. Check the reunion listing, printed elsewhere in this *New Trail*, to see if your class is planning a reunion. If one doesn't appear to be in the works, contact the Alumni Office, and assistance in getting one organized will gladly be provided.

Plan to share your favorite memories of campus at Reunion Weekend '88!

Anniversary to be Marked

The Faculty of Engineering is planning a two-day technical and social program to celebrate its 75th anniversary as part of the University of Alberta.

Hundreds of alumni are expected to attend the program, which is scheduled for October 7 and 8, 1988.

Any Engineering graduates interested in organizing class reunions around this special event, are invited to contact the Alumni Office for assistance. The Office would be pleased to help make this special celebration even more memorable through the bringing together of as many classes as possible.

The engineers will celebrate 75 years on campus this fall.



Engineering Photos Sought

In conjunction with the celebrations which will take place this year to commemorate the 75th anniversary of the Faculty of Engineering, Dr. George Ford, professor emeritus and former dean of the Faculty, is writing a history of engineering at the University of Alberta.

While the manuscript is now in its final stages, pictures are still being sought for the book which is to be released during the major anniversary activities scheduled for October 7 and 8. Marjorie Thompson, who is assisting in the production of the book, is seeking the assistance of alumni in providing photographs relating to all aspects of the history of the engineering faculty, including students, events and campus life. All photographs will be returned.

Those who can be of assistance are asked to call her (Marjorie Thompson) at 432-4514.

Association Recognized

Graduates of the Master of Health Services Administration program have recently gained recognition for their alumni

association, which now has official status as a constituent association of the University of Alberta Alumni Association.

The Health Services Alumni Association, which has operated independently over the past few years, made application to the Alumni Association last year to become affiliated as the official alumni organization for MHSA graduates. That application was reviewed and accepted at the September 1987 meeting of Alumni Council, the Alumni Association's prime governing body.

The purpose of the HSAAA is to provide an organized forum for graduates and students of all graduate degree programs in the Faculty of Medicine's department of health services administration and community health. This forum is intended to promote the status, education and support networks of alumni.

At present, the HSAAA has a paid membership base of 55 per cent of the graduates of the program. It is headed by Mark Ewan ('81 MHSA), president. Other executive members include Marlene Raasok ('79 MHSA), vice-president; Bev Rachwalski ('85 MHSA), secretary; and Kerry Toll ('78 MHSA), treasurer.

Also serving on the executive are the past-president, Michael Civitella ('81 MHSA) and three representatives: Janet Storch ('75 MHSA), the faculty representative; Suzanne Clark, the student representative; and Bill Dartnell, representing associate members.

Club Welcomes University Women

The University Women's Club of Edmonton invites University of Alberta alumnae living in the

Edmonton area to take part in its activities.

The Club is composed of women who hold university degrees from any accredited institution in the world. It is federated with both the Canadian Federation of University Women and the International Federation of University Women.

The Club meets the third Monday of each month from September to May. The meetings, which are held at the University's Faculty Club, feature guest speakers and informative and stimulating discussion.

Featured speakers in the

next few months will be M.P. David Kilgour (March 21); University of Alberta Professors Owen Beattie and Roger Amy of the team investigating the tragic fate of the Franklin Polar Expedition (April 18); and the Honorable Nancy Betkowski, Alberta's minister of education (May 9).

For more information about the club and its activities, alumnae are invited to contact either its president, Marion Gee, at 436-4895, or its publicity chairperson, Maureen Watson, at 437-5250.

Council Vacancies

Graduates are being sought to fill a number of openings on Alumni Council. With the expiration of current terms in May, vacancies will exist for individuals to represent the following faculties for three-year terms:

Agriculture and Forestry*
Arts
Dentistry
Education
Library Science
Pharmacy

Under the terms of the Alumni Association constitution, a person must have graduated from a faculty in order to represent it on Council, and must be nominated by at least three fellow graduates from that faculty.

Individuals wishing to make nominations or themselves willing to serve, are invited to contact Alumni Director Susan Peirce (432-3224) for further information. Nominations are requested by April 5, 1988.

*This vacancy is for one year only.

Alumni Volunteers Needed

Alumni willing to donate their time and expertise can provide valuable assistance to the University and the Alumni Association. Volunteers are required in the following areas:

Alumni Records

Volunteer "detectives" are required to assist in the important task of locating "lost alumni"—graduates for whom the Association no longer has valid addresses.

Department of Philosophy

The assistance of volunteers is required to reorganize and keep in order the department's reading room. The room has several thousand volumes.

Career and Placement

Volunteers with expertise in personnel administration and recruitment are required to assist student placement consultants involved in the promotion of job search skills among their fellow students. As well, the Career and Placement Services office requires volunteers in a variety of related areas.

Graduates able to provide assistance in any of the above areas are encouraged to contact:

Sandra Kereliuk
Office of Alumni Affairs
432-3224

LIBRARY SCIENCE ALUMNI ASSOCIATION

Graduating Class and Alumni Wine & Cheese
Saturday, 12 March 1988.

LOCATION: Faculty Club, U of A
TIME: 2:00 p.m. to 4:00 p.m.
PRICE: \$10.00 per alumnus
GUEST SPEAKER: Dr. Margaret Beckman,
Professor, University of Guelph
Distinguished Visitor to U of A
(By 7 March)
RSVP: U of A Faculty of Library Science Office
(432-4578) or Jan Roseneder,
University of Calgary (220-3479)

Library Science graduates are encouraged to attend this annual event, which honors the graduating class of 1988. Watch for more information in your February newsletter.

FACULTY OF NURSING ALUMNI ASSOCIATION

Reception
Wednesday, 20 April 1988

LOCATION: AARN Conference
Skyline Hotel, Calgary
TIME: 5:00 p.m. to 7:00 p.m.
ADMISSION: Free (sponsored by the Faculty of Nursing
Alumni Association)

All graduates of the University of Alberta Faculty (School) of Nursing are invited to this event. Further information will be available near the AARN registration desk.

MARYLAND, VIRGINIA & WASHINGTON, D.C.

All-Canada University Alumni Gathering
Saturday, 16 April 1988

HOSTED BY: Acadia University
(Celebrating its 150th anniversary in '88)
GUEST SPEAKER: Dr. J.R.C. Perkin
President, Acadia University
FOR DETAILS: Frank Coolidge
5026 King Richard Dr. / Annandale VA
Phone: (202) 382-8873/business
or (703) 425-4695/home

Watch your mail for more information.

CHICAGO, ILLINOIS

All Canadian Universities Alumni Night
Friday, 22 April 1988

LOCATION: University Club
76 East Monroe Street
HOSTED BY: McGill University
GUEST SPEAKER: Professor David C. Johnston
Principal and Vice-Chancellor
McGill University

Watch your mail for further details.

VICTORIA, B.C.

Annual General Meeting Sunday, 17 April 1988

LOCATION: Princess Mary Restaurant Vessel
344 Harbour Road
TIME: 11:30 a.m. Reception (coffee & cash bar)
12:00 noon Brunch
GUEST SPEAKER: Associate Chief Justice Tevie Miller
Chancellor, University of Alberta
ADMISSION: \$12.00 per person
RSVP: (By 8 April) Betty Hanna
4070 Jason Place / Victoria V8N 4T6
Phone: 477-9277

VANCOUVER, B.C.

Spring Brunch and Annual General Meeting Sunday, 10 April 1988

LOCATION: Royal Vancouver Yacht Club
3811 Point Grey Road
TIME: 12:00 noon No Host Bar
12:30 p.m. Brunch
GUEST SPEAKER: Dr. Douglas Wilson
Dean of Medicine, University of Alberta
ADMISSION: \$14.50 per person
RSVP: (By 8 April)
Dorothy Weijer-Tolme (585-6860) or
Frank McEvoy (731-1076)

Watch your mail for further details.

FORT McMURRAY, ALBERTA

Reception Thursday, 19 May 1988

LOCATION: MacKenzie Park Inn
TIME: 5:30 p.m.
GUEST SPEAKER: Dr. Myer Horowitz
President, University of Alberta
ADMISSION: Free (cash bar)
Hors d'oeuvres will be served
RSVP: (By 12 May) Lyndel Donald
131 Brett Drive / Fort McMurray T9K 1S4
Phone: 743-0823

Watch your mail for further details.

NEW YORK, NEW YORK

Reception Thursday, 23 June 1988

LOCATION: Government of Alberta Office
27th Floor, General Motors Building
767-5th Avenue, NY.
GUEST SPEAKER: Dr. Allan Warrack
V-P (Administration), University of Alberta
ADMISSION: \$10 per person
RSVP: (By 20 June) Linda
Government of Alberta Office
(212) 759-2222

Watch for further details in your mail.

GRANDE PRAIRIE, ALBERTA

Annual Dinner Friday, 13 May 1988

LOCATION: Trumpeter Motor Inn
TIME: 6:30 p.m. Cocktails
7:30 p.m. Dinner
TOPIC: The Free Trade Debate

Musical entertainment is also planned for the evening. Watch your mail for further details.

TORONTO, ONTARIO

Family Picnic Sunday, 29 May 1988

LOCATION: Ben Tanner Farm
14 miles north of Highway 401
on Mississauga Road (Look for signs!)
TIME: 2:00 p.m. to 6:00 p.m.
PRICE: \$5.00 Adults
\$2.00 Children
RSVP: Dick Hill (1-877-3318) or
Jessie Heath (483-8818)

The picnic will feature children's sports, tennis, pony rides, nature trails and food. First-time attendees especially welcome!

KELOWNA, B.C.

Reception Thursday, 14 April 1988

LOCATION: Capri Hotel
1171 Harvey
TIME: 7:00 p.m.
GUEST SPEAKER: To Be Announced
ADMISSION: Free (cash bar)
Hors d'oeuvres will be served
RSVP: (By 6 April) Dr. Shawn Spelliscy
344 Poplar Point Drive / Kelowna V1Y 1Y1

Plan to attend this first ever alumni event in the Kelowna area! Watch your mail for further details.

LONDON, ONTARIO

Reception Tuesday, 21 June 1988

LOCATION: University Club of London
Somerville House (Room 213)
TIME: 5:30 p.m.
GUEST SPEAKER: Dr. Allan Warrack
V-P (Administration), University of Alberta
ADMISSION: Free (cash bar)
Hors d'oeuvres will be served
RSVP: (By 17 June) Dale Bent
Assistant V-P, Academic Services
133 Stevenson Lawson Building / U.W.O.
London, Ontario N6A 5BA
Phone: 661-2149

Watch your mail for further details.

Faculty
of Medicine
75th
Anniversary
preparing
Physicians
for the
Future

Beyond the Child Hatchery

By David Schiff and
Tessa Gordon



Prior to the 1950s, premature infants had exceedingly little chance for survival. The statistics were sobering: 75 per cent of preterm infants died. Most often the cause of death was what physicians now refer to as respiratory distress syndrome of prematurity. However, with the advent of specialized neonatal care in many major centres—including the Neonatal Intensive Care Units (NICUs) for Northern Alberta—there have come dramatic improvements as a remarkable change in our understanding of diseases related to the newborn has taken place, and as a new technology for the intensive care of sick and premature babies has emerged.

Antecedent to the NICU was the premature nursery as first conceived in 1895 by the Parisian physician Pierre Budin. A student of his, the American pediatrician Martin Couney, took Budin's advancements even further, developing (as he called it) a "child hatchery" to isolate and incubate the prema-

Advanced technology has dramatically improved the care of sick and premature babies.

ture infant to reduce risk of infection. (Something of a showman, Couney demonstrated his "hatchery" at a number of sites, including a world's fair and Coney Island, where it attracted considerable attention.)

In Alberta, Dr. W.C. Taylor, a graduate from the Aberdeen School of Medicine in Scotland, joined the Faculty of Medicine at the University of Alberta in the late 1950s and established the first operational premature nursery at the University of Alberta Hospitals. That nursery primarily served babies born to mothers from the city of Edmonton.

The present Neonatal Intensive Care Unit was established in 1972 at the University Hospitals by Dr. David Schiff, a graduate from McGill University Medical School, who was recruited by the then chairman of pediatrics, Dr. Ernest McCoy. Two years later, Dr. Neil Finer, a University of Toronto gradu-

A remarkable change in our understanding of diseases related to the newborn has taken place.

Above: In 1961 a difficult baby was cared for in an incubator in which oxygen and temperature control was fairly limited and could only be adjusted manually.

Below: In 1987 the incubator has become a well-controlled homeostatic environment and fully automated. Evident is the new technology including infant respirator, constant infusion pumps, cardiac monitors, and oxygen regulators.

ate was recruited to establish a similar unit at Edmonton's Royal Alexandra Hospital.

The importance of the concept of neonatal intensive care was recognized by the government of Alberta in 1974, and its subsequent funding helped to broaden the program of infant care to include the northern part of the province. The resultant University-based regional program, the Northern and Central Alberta Perinatal Program, provides the means by which a premature or sick infant

born to a mother in a town such as High Level, some 600 kilometres distant from Edmonton, can rapidly and safely be transferred to the more sophisticated care at the Royal Alexandra or University Hospitals.

Today, many at-risk mothers actually deliver their high-risk babies in one of these two Edmonton medical centres. Prior to this, the infants were transferred in makeshift incubators, in which the only means of keeping them warm was a hot water bottle. Coinci-



dent with this development, has been the establishment of a follow-up clinic for at-risk infants at the Glenrose School Hospital, Edmonton. This clinic is under the direction of Dr. Charlene Robertson, a graduate of the pediatric training program at the University of Alberta.

The performance of the University-based neonatal intensive care program over the past 16 years has been remarkable. The total number of infants who are looked after in the two NICUs now averages about 1,500 a year, and the over-all mortality rate has been reduced to about eight per cent of the total number of admissions. The program has contributed significantly to the low perinatal mortality rate seen in the province of Alberta, a rate among the best in Canada. In addition—and perhaps more important—is the long-term outcome of these critically ill infants. The over-all handicapping disorders that effected in the order of 50 per cent of such children 20 years ago now afflict only about 15 per cent of the infants followed.

Complementing the clinical services of the Northern and Central Alberta program is the significant and important research component which has developed. Today the program based at the University of Alberta is a leader in the areas of infant nutrition,

metabolic diseases in infancy, cardio-respiratory disorders, and neurodevelopment. It has also developed a very successful fellowship training program, one of the more notable ones within Canada, and physicians from across the nation and from many parts of the world have trained through the program.

As the Northern and Central Alberta Perinatal Program expanded, more physicians were recruited to work on a full-time basis in the respective NICUs. At present there are nine full-time physicians working within the program. In their work they constantly explore new challenges, and in this fashion maintain their leadership role in Canada. ■



This 30-week-gestation baby, still barely bigger than a handful, has recovered from his illness and is now attended by his mother.

The authors are members of the medical faculty at the University of Alberta. Dr. David Schiff holds a Bachelor of Science and a medical degree from McGill University, as well as a Doctor of Philosophy degree from the University of London. At the University of Alberta, he holds joint appointments in pediatrics and obstetrics and gynecology. Dr. Tessa Gordon holds a Bachelor of Science degree from Cape Town University and Master of Science and Doctor of Philosophy degrees from Birmingham University in England. An Alberta Heritage Foundation for Medical Research Scholar, she is an associate professor of pharmacology.

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 _____ Dark Green border @ \$94.95

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Name _____

Street _____

City _____ Province _____

Postal Code _____ Phone _____

Year/Degree _____

Mail to:
 Alumni Affairs, University of Alberta, Edmonton T6G 2E8 Canada

Faculty
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75th
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preparing
Physicians
for the
Future

A Focussing of Idealism

As 1988 heralds the 75th anniversary of the Faculty of Medicine at the University of Alberta, medical students in conjunction with students from other health-related disciplines on campus are launching an extensive campaign aimed at reducing the incidence of accidental poisonings amongst Alberta children.

Stemming from the idealism of a few individuals, the program has extended to involve a large number of organizations and volunteer efforts. Aware of the high number of youngsters who accidentally ingest a variety of toxic substances, we in the Medical Students Association decided to do something about it. Literally thousands of hours of effort resulted in the official launching of the Poison Prevention and Control Program (Poison PAC) in November 1987.

Early on, a cursory review indicated that Alberta lacked a co-ordinated approach to the problem of poisonings. Discussion with Dr. David Cook, chairman of the Faculty's department of pharmacology and Herb Dixon, director of the pharmacy department at the University Hospitals, confirmed these findings. Realizing that establishing a program whose goal was to effectively "poison-proof" the province would be enormous, we enlisted the support of nursing and pharmacy students as well. The deans of the various faculties helped us to focus our idealism into a realistic goal.

We found the camaraderie among the various students to be very exciting. It showed a unity that had never been previously explored. However, start-up funding was very difficult to find. Initial grant applications were drafted, and our drive was dampened by the early and outright refusal by an agency whose mandate was to promote aspects of health within Alberta. Perhaps the concept of students even considering something of this sort was the reason for refusal.

In any event, an opportunity to reflect on our approach was offered, and with renewed vigor we approached other sources. About this time, meetings with the Edmonton Ju-

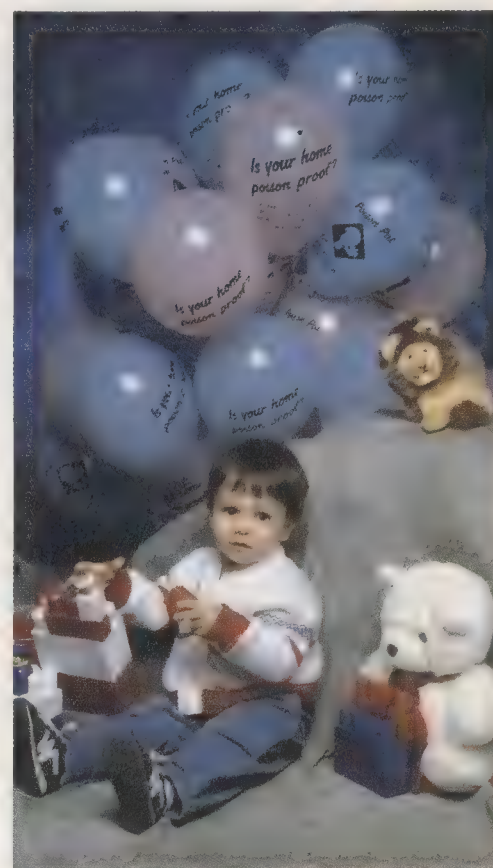
nior Chamber of Commerce were held. The Jaycees were in the midst of an active campaign to raise funds for the establishment of a poison control program. When Gordon Uhlich, then chairman of the Jaycees, heard of our fledgling efforts to poison-proof the province, he contacted John Bachynsky, dean of the University's Faculty of Pharmacy and Pharmaceutical Sciences, and arranged for us all to meet. Funds raised were then generously donated to the University and placed in a trust account held by Dean Bachynsky.

From that point we have never looked back. Having secured the funding required

Balloons are part of the extensive campaign to reduce accidental poisonings.

The founder and director of Alberta's Poison Prevention and Control Program recounts its development from an idea in the classroom to reality.

*by Louis Hugo Francescutti,
'85 PhD, '87 MD*



for start-up costs, we turned to active fundraising. But before embarking on such a campaign, we thought it would be wise to conduct a market study to gauge the receptiveness and perceived need for our program.

To conduct such a study properly would cost \$15,000—an amount that would have depleted our funding from the Jaycees. We had also learned that the provincial government was considering establishing a poison control centre, to be staffed 24 hours a day and easily accessible by a toll-free number. We sought integration with the Poison Control Centre as its educational arm, and then approached Dr. Alex MacPherson, deputy minister of Alberta Hospitals and Medical Care with our request for funding. We were successful on both fronts: the government responded positively, and the Poison Centre agreed to support us in our herculean attempt to poison-proof a province of more than two million individuals.

We next asked R.H. Christie Communication Consultants to conduct a study to identify issues affecting the marketability of a poison control kit. Their report concluded that close to 90 per cent of the target market would be interested in the kit; that pharmacies were the overwhelming preference as a purchase point; and that, although most people did not know how much they should pay for a kit, less than \$10 would please most everyone. The study also showed that poison-proofing measures were in place in 76 per cent of the homes, but most homes did not have a method of treating accidental poisonings. Finally, an overwhelming percentage of respondents wanted educational materials for themselves and their children.

The market study helped us immensely in several ways. It confirmed that a program and kit such as we were developing was needed, and it made fund raising more feasible. We were very fortunate to receive a grant from the Alumni Association Alma Mater Fund early in the program. This grant provided us with the cash flow to start up and maintain our modest office. Up to this point, the promised funding of the Jaycees had been kept in reserve.

In 1986, the Faculty of Medicine funded a medical student, Trent Dusang, to work on the Poison Prevention and Control Program as a summer research project. During that summer, we reviewed the literature and developed a prototype kit. The kit was to contain both educational material as well as medication to be used in the event of accidental poisoning. The educational material would consist of a home poison-proofing

manual, warning labels for poisonous substances, a telephone card listing emergency numbers, and safety latches to help slow down curious youngsters. For medications, we decided to use Ipecac syrup and activated charcoal. However it soon became apparent that activated charcoal was not readily accepted by all poison centres as a home treatment. We could not find any literature which dealt with its role in the home environment. Although it is well-established in a hospital setting, many felt that it would be too difficult to administer in the home, and we eventually dropped it.

Support continued to build for the program. Students' Union President Dave Oginski heard of our program and put us in contact with industrial design students on campus and soon we had several design prototypes for our kit. Dave then suggested that we approach the president of the University. Myer Horowitz was immediately supportive and had David Norwood, the University's associate vice-president (university relations) establish a president's advisory committee to help our program make use of the various facilities at the University. Soon after, the Students' Union allocated \$12,000 to the program.

With the summer of 1987 upon us, the Faculty of Medicine once again funded a summer student to work on the program. Joanne Wakulich continued with the work that Trent and others (such as Rob Hauptman) had started. The initial prototypes which had originated in the industrial design division were now being developed further by Walter Jungkind, professor of art and design, and student Albert Ling. The manual was undergoing numerous revisions, as were the other contents of the kit.

The University/Community Special Projects Fund approved our application for money to produce an educational pamphlet to be distributed throughout Alberta. We thought the best approach to educating the public would be to use the existing health care units in the province. Fortunately, we were given the opportunity to address the annual standing committee of supervisors of community health units in Alberta. After we explained our program, they agreed to be our final link to the public.

Also nearing completion at this time was a miniature house being built by the Miniature Enthusiasts of Edmonton. This very detailed three-storey model depicts poisonings occurring in various areas of the home. Funding for the home was made possible by the University Hospitals Foundation.

Once the tenders for the various compo-



The Poison Treatment and Prevention Kit contains both educational material as well as medication to be used in the event of accidental poisoning.

The Medical Students Association

by Michael Caffaro

A shadow organization, an underground arm of the Faculty, a bunch of crazy kids . . . All these terms (and more) describe the Medical Students Association, which celebrates its 71st anniversary this year.

An association comprising all medical students at the University of Alberta, the MSA has had a varied and interesting past, highlighted by a growing list of contributions to the Faculty of Medicine, the University, and the people of Alberta. These contributions extend well beyond the development of competent physicians.

The year 1917 saw the birth of the first organization for medical students, the Medical Club, conceived with an eye to supporting medical student "advancement, innovation and spirit." The early years of the Medical Club were certainly successful in providing for interactions between students and staff in various activities. On the academic side, the Club played host to numerous presentations from such notables as researcher Dr. J.B. Collip and University President Henry Marshall Tory. Similar presentations from students were also given an open airing.

Of course the Medical Club also excelled in providing the ultimate in social events on campus. The annual Med Banquet and the (in)famous Med Nite cabaret were the most popular attractions, even as the latter was eventually dropped due to "unfavorable" criticism. The budding physicians also made their presence felt on the sports fields—and in other rivalries. The attempted 1937 siege of the



old Medical Building by Engineering students is still recalled with fondness. Especially vivid is the memory of the barrage of flour and water and rotten eggs with which the medical students greeted their adversaries.

The Second World War forced several changes in both the Faculty and the Club, by then the Medical Undergraduate Society. An accelerated course of education to provide physicians for the war effort (with a loss of summers off!) kept the MUS from expanding activities. However, 1944 did see the entry of the student society into the Canadian Association of Medical Students and Interns and the beginning of a prominent future role for the MUS in the national issues of medical education and practice. In addition, the MUS also began helping out with Red Cross blood drives on campus.

The 1950s saw the emergence of a newer and more mature MUS—one that was both more fun-loving and more determined to get involved in the issues of the day. With regard to the former, the Med Show (its new name) made its return in 1950 after a 14-year hiatus. Immediately subjected to the same criticism that had plagued Med Nite, it was an instant hit—save for the 1955 show when efforts were made to

"clean it up."

On the more serious side, many issues came to the forefront which are familiar not only to medical students and practitioners today, but to the public at large. In the '50s the MUS began consideration of perceived shortcomings in education with respect to the great changes taking place in medicine. Those efforts and consultation with the Faculty culminated in a complete revamping of the medical program by the end of that decade. At about the same time, nuclear weapons first appeared as a concern for the MUS, providing a backdrop to today's student involvement in the anti-nuclear movement.

The question of "socialized" medicine made its presence known as we entered the 1960s, as did the issue of government stipend payment to student interns. In the same decade, the problems related to the supply of physicians to rural areas first came to notice of the MUS, the Alberta government, and the public at large. Many of these issues are still with us, and in dealing with them the MSA often finds itself dealing directly with governments at both the provincial and federal level, and with medical students across the country.

There is yet another side to the MSA, one which has only recently been widely publicized. Medical students

have always been great supporters of many campus organizations. In the past few years that support has overflowed the University campus itself. The annual Cystic Fibrosis "Shinerama" is co-ordinated on campus in part by the MSA. The Courtyard Concert Series is now entering its third year of operation, providing free Thursday noon hour concerts for patients, students and staff in the W.C. Mackenzie Health Sciences Centre. The Concert Series was developed after the students raised \$15,000 to buy a grand piano, which they presented to the hospital. *Iatros*, the University of Alberta Medical Journal, Volume 1, came off the presses in 1986, supported by the MSA and greatly assisted by the Medical Alumni Association. *Iatros* is a forum for the presentation of student research and communication with the medical alumni. Most recently, the Poison Prevention and Control Program (Poison PAC) was born, founded by the MSA with support from Pharmacy and Nursing students.

There is still much more that could be told about the MSA—not just events and projects, but the very people involved. Above all, however, some acknowledgements must be made. Without the constant support of the Faculty, many of the things the MSA has done would not have been realized. And ultimately, the MSA is only as strong as its membership—the medical students of the University of Alberta. They are what makes the Medical Students Association the most active organization of its kind in Canada.

Michael Caffaro is a member of the Medical Class of 1990 and the medical students representative on the University's General Faculties Council.

nents of the kit came in, we double-checked our finances and decided to place our orders and start the presses rolling. However, two major problems remained: How would we, students working on the program part-time, assemble and distribute throughout the province 10,000 kits?

In keeping with the community-oriented spirit of the program, we arranged to have the kits assembled at the Western Industrial Training and Research Centre, which hires individuals with various handicaps to provide them meaningful work. Remembering that the public would want to pick up the kit in pharmacies, our pharmacy representative approached the Alberta Pharmaceutical Association and enlisted their support in helping us solve our final hurdle, that of distribution. Olly Kochan, the APA's services co-ordinator, approached Northwest Drugs and Alberta-National, two of the province's major pharmaceutical supply houses, and they agree to carry the kits.

Finally we were ready to officially launch our program. Less than a week before our inaugural news conference, which was organized by Sandra Halme of the University's Office of Public Affairs, we approached Larry Didick of Alberta Concrete Products and requested that our wording "Is your home poison-proof?" be displayed on one of their

mixer trucks, so that our message could be seen daily in the streets of Edmonton. "Yes," was his answer, and the truck was painted and ready for the news conference.

On November 3, 1987 in the foyer of the Mackenzie Centre's Bernard Snell Hall, Dr. Myer Horowitz, University of Alberta president; Dr. Ingrid Vicas, director of the Poison Centre; Dr. Alex MacPherson, deputy minister of Hospitals and Medical Care; Dr. Ruth Collins-Nakai, president of the Alberta Medical Association; Gordon Uhlich, past-chairman of the Edmonton Jaycees; and I officially inaugurated the program.

In the short time that has elapsed since then, the kits have been very well received and we are planning to produce up to 75,000 more. In addition we have received numerous requests from outside Alberta, and it appears that the program will be implemented in several other provinces.

An idea raised in a University of Alberta classroom and nurtured by students seeking to turn idealism to a reality is having a major impact. We hope that it results in far fewer home poisonings in our province and beyond. ■

Below: Some of the people involved in the launch of the Poison-PAC program pose for a photograph. The author is third from the right.



An extremely detailed three-storey miniature house built by the miniature enthusiasts of Edmonton depicts poisonings occurring in various areas of the home.



From Little Acorns . . .

by Douglas R. Green

Many of us view the process of science as it is promoted by popular culture (and, alas, by many scientists themselves). We envision the scientist striving faithfully and unswervingly towards a single goal and ultimately (if he or she is any good) succeeding. We watch Paul Muni, playing the famous Dr. Louis Pasteur (The Story of Louis Pasteur, 1936), stroke his beard and mutter, "Rabies . . .," to indicate that his great intellect will now be applied to this dread disease until a cure is found, and we expect that scientists will focus on the problems of obvious concern and not waste time (and money!) on apparently trivial things. But it often turns out that these apparently trivial matters open up new windows, letting us view the world in novel and useful ways.

Towards the end of the 1970's, the field of immunology, which concerns itself with how the body naturally defends itself against disease, dramatically changed. Whole new ways of studying the immune system emerged, together with important and novel avenues of therapy—all because a few investigators, most of them tucked away in laboratories away from the mainstream, chose to study some apparently insignificant phenomena of no obvious research value.

A major player in this story is a biochemist at the University of Alberta, Dr. Vern Paetkau ('63 BSc). Looking for a research system in which to study how cells became activated to divide, he chose to study T-cells, which play an important role in the immune system. Vern's interest in the field had been aroused by Dr. Erwin Diener, an internationally-known immunologist who



Lotus Studio Edmonton

had recently arrived in Edmonton to accept a University appointment.

The project proceeded slowly. Then, in 1975, a technician named Vicky Monticone did an experiment with the less-than-fascinating title of "cell/volume ratio." It was an experiment that might easily have been lost in the graveyard of old notebooks, but Vern analyzed the results to determine how much DNA each individual T-cell made versus how many cells were placed into culture. That analysis led to a remarkable insight: these T-cells were feeding themselves—that is, they were making something that facilitated their own proliferation. By hindsight it was a major discovery; at the time it could not have been less exciting to most immunologists. Most of Vern's peers recommended that he not waste his time.

Certainly Vern didn't drop everything else. It was more the type of discovery that leads to "flyers," experiments which are so chancy that only a small amount of time and effort is devoted to them—the kind of project one gives to a medical student spending a summer getting a feel for the laboratory bench.

Gordon Mills ('75 BMS, '77 MD, '84 PhD) was the student who got involved while spending his summers

Biochemist Paetkau in his campus laboratory.

in Vern's lab. Based on Vicky's experiments and Vern's insights, Gordon defined a crude T-cell product as a "co-stimulator," a growth factor which facilitated the proliferation of T-cells. He worked to perfect ways in which the activity of the co-stimulator could be measured.

At this point the work was starting to look a little more interesting. Interesting enough for a graduate student, Jenny Shaw ('80 PhD) to become involved. Jenny and Vern decided to treat the co-stimulator as though it were an enzyme, subjecting it to biochemical analysis (which was only possible because of the methods worked out by Vicky and Gordon). As they quietly proceeded the co-stimulator began to take shape as a molecule of real biological importance. The project, however, still failed to attract much attention.

Then, in 1979, at a historic meeting at Lake Constance in Switzerland, Vern Paetkau suggested to four other scientists (over a beer in the castle's pub) that the name "interleukin" be used as a general term to describe molecules that act between the cells of the immune system. Co-stimulator became interleukin-2, or IL-2. Vern had already exchanged some of his

group's co-stimulator for a like substance from another lab which had reported a similar activity, and the collaboration had revealed that both labs were looking at the same thing. Following the Lake Constance meeting, other labs began similar exchanges and found that IL-2 had a number of different and important functions in the immune system.

Now interleukins from 1 to 5 have been identified (interleukin-6 is waiting in the wings) and are being actively studied throughout the world. IL-2 is now known to be of central importance in a wide range of immune responses, and injection of IL-2 or cells treated with IL-2 into patients with some types of tumors is likely to become an important method of cancer therapy. (It is currently in extensive clinical trials in many countries.)

Not surprisingly, IL-2 and related interleukins have become the central focus of research in Vern Paetkau's laboratory.

The IL-2 story is a classic example of a scientist following his nose, sticking with a problem that "smells right." And where did this little acorn of an idea lead? *Index Medicus* 1986 lists more than 500 references relating to IL-2 (by various names) for that year. A veritable forest of papers.

While very few "flyers" wind up as successfully as the co-stimulator project did, there really is no way to know from where the next major discoveries will come. We therefore support environments in which a novel project will flourish. And we encourage scientists who have the insight to follow where the science leads.

Dr. Douglas Green is an Alberta Heritage Foundation for Medical Research Scholar and an assistant professor of immunology. He is a graduate (BSc, PhD) of Yale University.



High Country Banff
Oil on Masonite / 25 x 20 cm

Henry Shimizu, '52 BSc, 54 MD

Henry Shimizu is an Edmonton plastic surgeon whose deft touch with the scalpel is reflected in his accomplishments with the paint brush. Born in Prince Rupert, B.C., he attended school in Edmonton before enrolling in the University of Alberta. His specialty training was obtained at the University of Pittsburgh.

Dr. Shimizu took up painting some 20 years ago as one of a group of doctors

who arranged for instruction at the University Hospital through the Faculty of Extension. Surgeons were well represented in that group, he says, and their hand-eye co-ordination made them the best painters. As Dr. Shimizu became more serious about painting he took courses through the University's fine arts program.

In recent years, his painting has lapsed as he has become more deeply involved in other aspects of the arts, serving on the boards of the Edmonton Art

Gallery and the Alberta Ballet Company. However, that involvement is now winding down and he looks forward to returning to painting.

"I will probably have to go back and start all over again," he says, but not without a measure of relish.

'16

Sidney Millward, Licence(Pharm), writes to report that a replica of the drugstore that he built and operated in 1922—the Sun Drug Store at the corner of Ninth and Jasper—is being constructed in Fort Edmonton Park.

'21

Munroe MacLeod, BA, who recently celebrated his 90th birthday, writes with the observation: "scholars seldom become millionaires."

'35

Donald Cameron, MSc, '30 BSc(Ag), recently retired from the Canadian Senate at age 86. Appointed by Prime Minister St. Laurent in 1955, he was one of only seven serving senators who took office before the passage of automatic retirement (at age 75) legislation in 1965.

'38

Joan McLure (Lofts), Dip(Nu), and husband **Gordon McLure**, '40 BSc(Eng), are enjoying retirement—summers in Saskatoon and winters in Texas.

'39

Walter E. Harris, MSc, '38 BSc, professor emeritus of chemistry at the U of A, was awarded an honorary DSc degree by Waterloo University, Waterloo, Ontario, in May 1987.

'40

Winnifred M. Bridges, BSc, worked as a chemist until 1953, spending almost ten years with

the federal department of national health, food and drugs. She left chemistry to attend university in Toronto and received her BDiv degree from Emmanuel College in 1956. Ordained by the United Church of Canada, she served six charges in Ontario before retiring in 1986. She now lives in Norwood, Ontario.

'42

Fred Bentley, MSc, '39 BSc(Ag), former dean of agriculture at the U of A, has received the Alberta Order of Excellence.

'46

Allen Ronaghan, BEd, received his PhD from the U of Manitoba in October 1987 and is now preparing his thesis, "The Archibald Administration in Manitoba, 1870-72," for publication.

H. Arthur Howard, BSc(Eng), has retired from Cominco Ltd. and is now residing in Victoria, B.C.

Guy Downie, BSc(Eng), after retiring from Cominco in 1985, spent 18 months with his wife in Ghana on a gold mine rehabilitation project. "A fine experience, but now back in B.C. and retired again."

Ambrose Zitniak, BSc(Ag), who retired from the U of Guelph's department of horticultural science in January, hopes to do some travelling abroad and pursue some personal hobbies during his newly acquired "freedom."

'48

Arthur Follett, MD, '45 BSc, took early retirement in October 1987 after serving 12 years with

Alberta Hospitals and Medical Care. Previously he was in general medical practice in Calgary.

Joseph Stratton, LLB, '47 BA, has been appointed to the Alberta Court of Appeal.

'49

Alison Hankins (Matthews), BSc, and her husband **Gerald Hankins**, '41 BSc, '51 MD, have returned to Calgary from Patan Hospital in Kathmandu after spending 12 years in Nepal with the United Mission to Nepal.

'50

William Scotland, BSc(Eng), formerly associate vice-president of the National Energy Board, has retired after 26 years in Ottawa. He has now joined Western Gas Marketing Ltd as vice-president of government relations and administration in Calgary, where his wife now teaches in the diabetic day care unit of Rockyview General Hospital.

Gordon Peacock, BEd, '49 Dip(Ed), professor emeritus of drama, who retired from the U of A in 1986, is now Erwin Professor of Drama at the U of Texas in Austin and has been recently appointed adjunct professor at the U of Tennessee to carry on theatre research in experimental teaching techniques.

Arthur Kowalchuk, BSc(Eng), who retired in 1986 after 36 years with Gulf Canada, received the Alberta Engineering Centennial Award on behalf of sour gas processing engineers in Calgary on November 13, 1987.

'55

Kenneth Hill, BSc(Pharm), is now semi-retired and his son **David Hill**, '78 BSc(Pharm) is managing the family drugstore in Fort McMurray, Alberta. The family's history in Fort McMurray began in 1922 when Ken's father, the late **Walter Hill**, '21 Dip(Pharm), came to what was then a tiny outpost to take charge of Angus Sutherland's log cabin drugstore for a few months while the latter was ill. Walter never left, becoming a partner in the store and eventually taking it over when Sutherland died in 1951. Ken now devotes his time to the local hospital board and is a

former town councillor, having followed in his mother's footsteps—she was the town's first female councillor.

'56

John Moysiuk, BSc(Eng), works for Petro Canada as a senior supervisor of engineering services, having been transferred to Calgary from Mississauga, Ontario in July 1986.

Anthony Santiago, MSc, is a plant biologist living in Kuala Lumpur, Malaysia. In 1985 he retired as a senior lecturer at Mora Institute of Technology, Shah Alan Selengor, and now manages Instant Garden Industries and Enneametry Publishing Industries, formed as private companies in 1987. **James Bowersock**, BSc(Eng), of Beaconsfield, Quebec is now president and CEO of Repap Enterprises Corporation Inc. **Victor Jendruska**, BSc, after 23 years with Upjohn Pharmaceuticals, left in 1982 to begin a career as a stockbroker with Dominion Securities in Toronto.

'58

Leslie Keylock, BEd, '56 BA, is associate professor of Bible and theology at Moody Bible Institute in Chicago and is the author of a monthly column, "Evangelical Leaders You Should Know," in *Moody Monthly*. He also directs the annual Moody Write-to-Publish Conference each year and is

Homecoming Class Photos

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Please state your class and year.

Can these years be beaten?

"Can any group of grads beat these years?" was the challenge contained in a recent note from **Harry F. Chritchley**, '30 B.Comm, of Calgary.

Along with the note was a photograph (too dark for reproduction) showing a get-together of a group of University of Alberta graduates staying at the same resort at Surfer's Paradise, Queensland, Australia. With

Mr. Chritchley in the photograph are Justice (retired) **Edward R. Tavender**, '25 BA, '27 LLB; **Francis Harkness (Macmillan)**, '28 BSc(HEc); The Honorable **Douglas S. Harkness**, '24 BA; **Douglas P. McDonald**, '26 BA, '28 LLB; and Mr. Chritchley's wife **Gwen**, a 1933 University of Toronto graduate.

now working on a book, *Biblical Inspiration Through the Centuries*.

'59

Bruce Hanwell, BSc(Eng), and **Barbara Hanwell (Farmer)**, '55 Dip(Ed), '56 Dip(Ed), '57 BEd, are finding it hard to get back to the real world after their 28th year honeymoon: ten months spent touring Fiji, Australia and New Zealand.

'60

Michael Isaac, '61 BSc, has been appointed executive vice-president of Discovery

West Corporation, a company formed as a result of the 1987 merger of Discovery Mines Ltd., Yellowknife Bear Resources Inc. and Midcon Oil and Gas Ltd.

'62

Marnie Strong (Carlyle), BA, is director of patient and family counselling services at Royal Inland Hospital, Kamloops, B.C.

'63

Eliot Phillipson, MD, has been appointed physician in chief at Toronto's Mount Sinai Hospital.

In Memoriam

The Alumni Association extends its condolences to the families and friends of the following:

William Norman McClellan, '20 Dip(Pharm) December 1987/Edmonton

Lysle Kellog Blain, '21 BA, '23 LLB December 1987/Toronto, Ontario

Charles Augustus Weston, '21 Dip(Pharm) October 1987/Calgary

Eric Wyld Cormack, '25 BSc(Ag), '83 LLD (Honorary) November 1987/Sherwood Park, Alberta

William Albert Deeprose, '26 BA, '54 BEd July 1987/Edmonton
Allan Langmuir Chambers, '27 BSc, '32 MD November 1987/Richmond, B.C.

Esmond Lando, '29 LLB August 1987

William Henry S. Jellis, '30 BSc(Ag) December 1987

Mary Helena Mooney (Bowlen), '30 BSc(HEC), '69 LLD (Honorary) December 1987/Edmonton

Margaret Vivian Bilton (Hord), '31 BSc, '33 MA December 1986/Calgary

Mary J. Moscovich (Joffe), '32 BA, '34 LLB December 1987/Vancouver, B.C.

George Durwood Mills, '34 BSc(Eng) November 1987

Graham Ward Jones, '36 BSc(Ag)

Marguerite Arthemise Bright (Schlader), '40 BSc August 1987
Arnold Fraser Moir, '42 BA, '46 LLB September 1987

Merton Alan Brown, '43 BSc(Ag) October 1987

Joseph Ilko Sereda, '44 Dip(Pharm), '47 BSc(Pharm) July 1987

Charles Stuart Douglas, '49 BSc(Ag) November 1987/Calgary
Alexander Farquhar McCrimmon, '49 BSc, '50 BEd October 1987

Mary Elizabeth Francis (Munro), '49 BSc(HEC) October 1987

Robert Edward Campbell, '50 BA, '51 LLB August 1987/Kaneohe, Hawaii

Alexander Clayton Milroy, '50 BSc(Eng) November 1987

Robert Walter Harrington, '51 MD November 1987

Kenneth Ralph Walker, '54 BSc(Eng) August 1987/Calgary
Neil Kenneth MacLean, '55 BEd October 1987

John E. Shubert, '56 BEd October 1987/Edmonton

David Joseph Schmirler, '61 BComm June 1987/Burnaby, B.C.
Miriam Scully, '62 BEd, '66 Dip(Ed) April 1987

Norman Granville Paton, '64 BEd

Edward Karl Messner, '71 BEd July 1987

Elaine Natalie Knodel (Tomyn), '72 BEd December 1986

Jean-Marc Lemire, '72 MA March 1987

Linda Margaret Miller, '74 BSc(HEC) November 1987

Daniel Patric Dewar, '76 BSc(Eng) November 1987/Red Deer, Alberta

Heather Jane Sjulstad, '80 BSc(Pharm) December 1987

James Martin Hieber, '81 BSc(Pharm), '85 MBA January 1988

Paul Edward Hopps, '83 MSc February 1987/Alliston, Ontario

Marilynn Louise Haluza, '85 BSc January 1988/Edmonton

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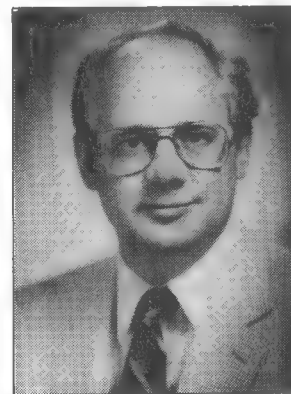
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Formerly head of the respiratory division at Toronto General Hospital, for the past four years he has also served as director of the respiratory division at the U of Toronto. Recognized as an outstanding clinician-scientist and teacher, he has received numerous awards including the Gold Medal in the U of A Faculty of Medicine and the Centennial Fellowship of the Medical Research Council of Canada.

Robert Hunter, BSc(Eng), has been promoted to the position of director-southern region of DMR Group Australia Pty. Ltd.

He is responsible for the Group's operations in the Australian states of Victoria, Southern Australia, Tasmania and the Australian Capital Territory.

'64

Jean Cote, LLB, was sworn in as a justice of the Court of Appeal of Alberta on November 19, 1987.

'65

Richard Moskalyk, PhD, professor of medicinal chemistry and associate dean of the Faculty of Pharmacy and Pharmaceutical Sciences at the U of A, was selected by the students of the Faculty as the 1987 recipient of the Squibb Award for Excellence in Teaching.

John Burton, BSc(Eng), since 1971 has been a partner in the Edmonton real estate development company Avatex Properties. He recently relocated to Arizona to manage

the company's activities in the Phoenix area.

Garry Hollingshead, MSc, '60 BSc(Eng), has joined Thurber Consultants, a geotechnical consulting firm, as manager of their Northwest Territories operations.

William MacGillivray, MA, has been reappointed to another four-year term as dean of the Faculty of Physical Education and Recreation at the U of New Brunswick.

'66

Glen Campbell, MA, '65 BA, recently returned to Canada after living in Montpellier, France for a year. A professor of French at the U of Calgary, he was accompanied to France by his wife and two children and 22 U of C students as part of an exchange program at Université Paul Valéry.

'68

Donald Kent, PhD, is finishing his second three-year term as

head of the department of geology at the U of Regina and is active in petroleum consulting.

Mary Lewis, BEd, has moved to Chatham, Ontario. Sister Mary writes that she is enjoying administrative work at her order's head house.

'69

Ralph Gorrie, MEd, '53 Dip(Ed), '59 BEd, is now retired after 25 years as a school superintendent. A resident of Vegreville, Alberta, he is enjoying serving on town council, consulting work, and life with his wife. Before Christmas he spent some time relieving the principal at Holden, Alberta.

Ronald Woznow, BSc, with Imperial Oil since 1979 in various environmental planning and advisory capacities, has recently been appointed chief of staff to the Honorable Tom McMillan, federal minister of the environment. He has been active with the Society for Environmental and Energy Development Studies, serving as the national director since 1981 and as the president of SEEDS Ontario since 1984. He is married and has three children. **Don McMillan**, BA, is a marketing representative for Delta Airlines, working from the Airline's Vancouver, B.C. office.

'70

Cole Shirvell, BSc, and **Catherine Shirvell (Yusep)**, '73 BEd, live in Nanaimo, B.C., where he works for the federal department of fisheries and oceans as a research scientist specializing in Pacific salmon. **Lawrence Bryan**, PhD, '61 MD, head of the department of microbiology and infectious diseases at the University of Calgary, has been awarded the prestigious Hoechst-Roussel Award from the American Society of Microbiology for his research into antibiotics and infectious diseases.

Jack Hazelwood, BSc(Ag), who has been with Alberta Agriculture since 1977, was presented the 1987 Distinguished Extension Award by the Canadian Society of Extension. He is the district agriculturist for the Three Hills district, and the award recognizes his outstanding work in getting producers to adopt effective conservation practices.



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1988 Class Reunions

The Alumni Association is happy to assist individual classes in organizing special events during the homecoming activities of Reunion Weekend '88 (September 22-24, 1988) or reunions at other times. The following classes are currently planning reunions for the coming year:

CLASS/PLACE/DATE/CONTACT

'38 Nursing (Dip) Edmonton/September 23-25/Helen Sabin
'38 Law Edmonton/September 23-25/Grace Dickson
'38 Medicine Edmonton/September 28-30/Dr L O Bradley
'48 Medicine Edmonton/September 28-30/Dr John Lipinski
'53 Dentistry Edmonton/August 21-24/Dr David Buchanan
'53 Medicine Edmonton/September 28-30/Dr Frank Haley
'58 Agriculture Red Deer/July 29-31/Walt Gerts
'63 Dental Hygiene Edmonton/August 21-24/Mary Ann King
'63 Dentistry Edmonton/August 21-24/Dr Kindrachuk
'63 Law Edmonton/September 23-25/Ann Russell
'63 Nursing (Dip) Banff/Sandi Lockhart
'63 Mechanical Engineering Edmonton/October 7-8/Gary Falkner
'63 Physical Education Edmonton/September 23-25/David Cragg
'68 Agriculture Edmonton/July 1-3/Brian Pinchbeck
'68 Medicine Edmonton/October 13-16/Dr M Lieberman/Dr R Arnold
'71 Dental Hygiene Edmonton/August 21-24/Denise Matushak
'72 Dental Hygiene Edmonton/August 21-24/Robin Irvin
'73 Law Kananaskis/June 4-6/Adam Germain
'73 Nursing (DipSept) Kananaskis/June 2-5/Moira Conrad
'78 Medicine Banff/September 2-4/Dr Christine Sharek
'78 Nursing (BSc) Edmonton/August 27-28/Pat Breaky
'78 Nursing (DipFeb) Edmonton/May 6-8/Judy Kanz
'78 Speech Pathology Edmonton/June 11-12/Francis Nobleman
'81 Dental Hygiene Edmonton/August 21-24/Laine Lowe
ALL Medical Lab Science Edmonton/June 24-26/Sheilah Stelmaschuk

Some locations and dates are tentative. Should you require information on the reunions noted, or if you wish to organize a reunion for a class not listed, please contact the Office of Alumni Affairs.

Patricia Cavill, BLS, '68 BA, is now assistant director of administration at the Calgary Public Library. She previously spent 18 years in rural library development in Alberta and Saskatchewan.

'71

Ross Embree, BSc(Eng), and **Joan Embree (Taylor)**, BSc(FoodSci), will be spending two years in Tucson, Arizona, while Ross, a major in the Canadian Armed Forces, works towards an MSc(Eng) at the U of Arizona.

Richard Paterson, MHSA, has been appointed president and CEO of the Royal Alexandra Hospitals, Edmonton.

David Gilbert, MD, '66 BA, widely known for his work in genitourinary reconstructive plastic surgery, was recently inducted into the American College of Surgeons. He and his wife and daughter live in Norfolk, Virginia, where he is a member of a group of 13 plastic surgeons at the Eastern Virginia Medical School.

Dorothy Wood, BA, is the Alberta regional planning and development specialist with the personnel branch of Agriculture Canada.

'72

Barry Ashton, BSc(Eng), has been named chief reservoir engineer by ENCOR Energy Corporation Inc.

Cindy Lombard, BA, practices law with the Vancouver, B.C. firm of Jeffrey and Calder.

'73

Daniel Friedenberg, BEd, earned an MEd degree in counselling at the U of Victoria in 1987 and is now employed as a counsellor by the Catholic

School Board in Kelowna, B.C. **Rudy Breittkreutz**, BSc, and his wife and three children live in Vernon, B.C., where he is department head of the histology laboratory at the Vernon Jubilee Hospital.

David Hoyt, BMus, is a professional musician who toured with Chuck Mangione and played in everything from ballet pit bands to rock versions of Hamlet before returning to Edmonton, where he has led the horns section of the ESO for 12 years.

'74

John A. Henry, BSc(Eng), has been appointed manager, exploitation by ENCOR Energy Corporation Ltd.

Philip Ross, BA, is an advanced financial planner with Investors Syndicate Ltd. in Edmonton.

Marion Coulter-Mackie, PhD, works at the Children's Psychiatric Research Institute at the U of Western Ontario, where she is an assistant professor of pediatrics.

John Cumberbatch, PhD, is now a university lecturer in computer science at the University of Umeå in Sweden. He enjoys the proximity to the mountains of Lapland (a few hours drive) and writes that last April he reached a height of 5,500 metres during a Swedish climbing expedition in Tibet.

Allen Mwalituke, BEd, teaches at a secondary school in Tanzania. He is interested in organizing an exchange of ideas between his pupils and Canadian students. (His address is: P.O. Ipinda, Kyela, Tanzania.)

John Lock, BSc, a chemist at Gore and Storrie Limited in Toronto, has been named winner of the American Society of Chemical Engineers' 1987 Wesley W. Horner Award, which acknowledges meaningful papers dealing with

hydrology, urban drainage or sewerage.

Linda Nolan Tseu, BA, is the legislative program specialist for the State of Hawaii Commission on the Handicapped. She lives on Oahu's North Shore.

A. Charles Mellon, BSc(Forest), has moved several times since graduation, having lived at places such as Mayo, Y.T. and Fort Simpson, N.W.T. He now resides in Nelson, B.C.

Gerald Dahms, BA, '61 BEd, has retired from teaching after 36 years with the County of Ponoka. He is enjoying golf, curling, family visitations and volunteer work in Central Alberta.

Susan Zurawell, Dip(Dental Hygiene), and her husband and three children have moved to Medicine Hat, Alberta from Calgary, where she worked at a private dental practice.

'75

Wayne Grady, MHSA, was appointed deputy minister of health for Nova Scotia by that province's premier, the Honorable John Buchanan, in September. The new deputy minister is a former chief medical technologist (administration) at the Izaak Walton Killam Hospital for Children in Halifax who joined the Nova Scotia department of health in 1976.

James Taylor, BEd, after spending two years in Ottawa, has moved to Calgary, where he is teaching a special education class.

Allan Gannon, BEd, lives in St. Albert, Alberta and works as director, academic services at Westerra Institute of Technology. He is also completing a master's degree in educational administration at the U of A.

'76

Joseph Belicek, MSc, since 1981 has worked for Environment Canada as senior environmental engineer concerned with environmental protection (Alberta district, Western and Northern Region).

Carl Kuhnke, MBA, '74 BSc, is science and technology advisor for Japan in the department of external affairs, Ottawa. He is returning to Tokyo this year as a counsellor and director of the science and technology division of the Canadian embassy.

Richard Stephen, MBA, has been named district manager for St. John by NBTel.

Helga Robson (Bizio), BSc(HEC), and **Jerry Robson**, '77 BSc(Eng), have recently moved to Victoria, B.C. from Calgary. Jerry is director of campus planning at the U of Victoria, and Helga, who worked for the board of education in Calgary, is enjoying time at home with their two children. The couple looks forward to owning their own sailboat and doing some sailing.

Michael Skinner, BComm, is now with the Office of the Ombudsman in Victoria, B.C. after having practiced law since receiving a LLB degree from UBC in 1981. Wife **Dorothy Hallgren**, BSc(OT), is now a part-time occupational therapist in Victoria, having previously been director of occupational therapy at Vancouver's Children's Hospital and a lecturer at UBC.

Gordon Falconer, LLB, and family have returned to Alberta from Australia, where he earned a Master of laws degree from Sydney University, and he is back at work for the provincial attorney general—as a crown prosecutor in Lethbridge.

'77

Edna Ellis (Hill), BEd, is teaching school in Grande Prairie, Alberta.

Joshua Miller, BA, is enjoying success as a film and television writer in Los Angeles. His past credits include the CBC series "Danger Bay" and a television movie for Superchannel entitled "Tickets." His most recent credit comes in the Paramount TV series "Friday the 13th" (entitled "Friday's Curse" in Canada).

Dave Kato, BSc, is manager of the U of A Fitness Unit.

Cindy Gilday, BEd, recently set up a Toronto office for Indigenous Survival International to educate Canadians about the relationship between Canada's Native peoples and the animals on which they have depended since long before the European discovery of North America.

John L. To, BComm, recently moved to Don Mills, Ontario. He is the controller for a large private real estate company specializing in real estate development and property rental and management.

LIBRARY SCIENCE ALUMNI ASSOCIATION

Notice of Annual General Meeting

Friday, April 29, 1988

4:00 p.m. (Reception to follow.)

Jasper Park Lodge

Check at the LAA reception desk for further details.



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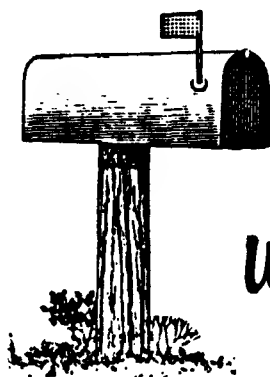
IMPROVED GROUP LIFE INSURANCE RATES NOW AVAILABLE TO ALUMNI

For many Alumni, our Group Insurance plan will provide the only affordable means of obtaining high limit protection during the crucial family years. For others, it's a way of insuring that an untimely death will not leave financial burdens or reduce financial goals.

If you haven't already enrolled in our Group plan, watch for it. It will be in your mail box within the next few weeks.

You and your spouse will be able to purchase up to \$360,000 at low group rates.

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Now is the time to
secure or re-secure your
Financial Security.

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this offer...*

'78

Rick Lough, BComm, has been appointed assistant business manager by Waterloo Lincoln Mercury in Edmonton.

Caralan Dams (Murray), BSc(HEC), is the author of *Let's Microwave*, a cookbook recently published by Delta Publishing Ltd.

Wendy Kinsella (Bergstrom), MLS, '75 BA, has been appointed assistant deputy minister of support services for the Alberta department of labor.

Kenneth Hughes, BSc(Ag), is president of Trade Strategies International Inc., a firm dedicated to developing trade in western Canada.

Sumray Meesiri, MEd, '71 Dip(Ed), is the registrar of Chiang Mai University in Thailand and in her spare time enjoys golf, gardening and travel. She intends to retire in 1989 and plans to become a volunteer teacher (self-supporting).

Kenneth Thompson, BSc(Eng), obtained an MBA degree from the Wharton School of the University of Pennsylvania in 1984 and is now president of DART Inc.

Randolph Phillips, BSc, is currently medical officer with the community health services of Trinidad and Tobago. In 1982, he graduated with MB and BS degrees from the University of West Indies School of Medicine, located in Jamaica.

Robert McDonald, BComm, is a human resources officer in Edmonton with The Toronto Dominion Bank, western division.

'79

Charlene Hay (Deary), BEd, is working toward a master's degree in educational foundations. Her research is an evaluation of the home economics curriculum in Swaziland.

Rochelle Wolfond (Reichert), BSc(HEC), is a real estate broker in Toronto and the mother of two youngsters, one born in 1987.

Kabir Moledina, PhD, is busy with curriculum development, learning the famous Faroese ring dance and ballads, and acquiring a taste for traditional Faroese foods. Formerly assistant professor at the Royal Veterinary and Agriculture College in Copenhagen, in

September 1987 he was appointed an associate professor at the University of Faroe Islands (Denmark; 7°W/62°N) to develop a BSc program in food science and human nutrition.

Debbie Davies (Ophus), BEd, now married with a son, is completing an MEd degree at Wollongong University in Australia. She also works at a teacher's college in Sydney, training elementary teachers in physical education and lectures to Aboriginal adult students training to be teachers.

Richard Dembicki, BComm, reports that he "took the plunge" and got married to **Karola Fritz**, BEd, in January 1987. They live in Calgary, where he is a senior economist in corporate planning for Home Oil.

Susan Haley, PhD, '72 MA, is receiving rave reviews for her most recent novel, *Getting Married in Buffalo Jump*, published by MacMillan.

Terry Blumenthal, BSc, directs a human psychophysiology research laboratory at Wake Forest University (Winston-Salem, North Carolina) where he is an assistant professor of psychology.

Hans-Georg Trevers, MA, teaches German to students aged 12 to 18 at a grammar school in Rugby, England, and has also become the school's co-ordinator for general studies. Married in 1986, he and his wife spent a three-week honeymoon in Canada. "Enjoyed visiting that wonderful country again."

'80

Carla Kvittum (Fustukian), BEd, is spending a year in China teaching at Northwestern University.

Barrie Gorrie, BSc(Eng), is now in Grande Prairie, Alberta as Alberta Power's district supervising engineer. He and his wife and two children are enjoying northern life.

Harry Dickau, BSc(Pharm), and **Vera Dickau (Hamm)**, '78 BEd, were married in 1982. Harry completed a residency in hospital pharmacy and Vera joined Campus Crusade for Christ working at the Universities of Alberta and Calgary. They are now serving as Christian missionaries in Asia.

Brian Ferguson, BComm, was appointed supervisor of investor relations by Alberta Energy Company in October 1987.

Garey Yardley, BPE, is working for the Canadian department of national revenue in Vancouver. **Bruce Tarbet**, BSc(Eng), worked for BP Explorations in London, England before being posted to HUDBAY Oil (a joint venture company between BP and Lasmo) in Indonesia as a senior drilling engineer.

Marvin Walls, BEd, teaches kindergarten in Chateau, Alberta.

Brian Taylor, BSc(Ag), and **Lorraine Taylor (Ward)**, BSc(Ag), and their two sons live and farm near Darwell, Alberta.

'81

Enrico Cappelletto, BSc(Eng), was recently married and lives in Calgary, where he is manager of marketing for Presson Manufacturing Ltd. and coaches downhill ski racing. **Grace-Marie Redford (Dahl)**, BEd, lives on an acreage near Alder Flats, Alberta and keeps busy teaching elementary school and giving piano lessons at home.

M. Delphine Brake, MEd, has worked as a program co-ordinator with the St. Barbe South Integrated School Board in Newfoundland for seven years.

Stephen Meriam, BSc(Forest), is working as a regional manager in Northern Ontario selling Stihl chain saws.

Marian Parkinson-Howg, BSc(HEC), is a dietician at the Taber Health Care Complex and lives on a farm at Enchant, Alberta with her husband and two-year old son.

'82

Glenn Wilson, MBA, '78 BSc(Eng), has been named vice-president, project group by Flint Engineering and Construction of Calgary.

Grace Tieng-Yee Tiang, BA, is in Winnipeg where she is working on her thesis towards an MSc degree from the U of Calgary department of educational psychology.

Petdic Chow, BComm, is a personal banking officer for the Royal Bank of Canada and resides in Scarborough, Ontario.

Keith Krause, BA, is a professor of political science (international relations) at York University in Ontario. In recent years he has completed a Doctor of Philosophy degree and been married.

Rhona McAdam, MLS, '80 BA, is the author of two books of poetry (*Life in Glass*, 1984 and *Hour of the Pearl*, 1987) and has a third (*Letters of Passage*) in final manuscript. She recently left her position as public records officer with the Alberta government to try free-lance writing.

Allan Schoening, BA, leads a busy life. He lives in Houston, Texas where he is personnel manager for the western United States and Canada for Dowell Schlumberger Inc. and coaches mountain climbing in California and Colorado when time permits.

He is also working on a master's degree in human resources management. "Hey 5th Mac ('78), how y'all doin'?"

John Courtright, LLM, is a senior solicitor in the corporate legal department of Shell Canada, Calgary.

Ian van Altena, PhD, is with the department of organic chemistry at the University of Adelaide in South Australia. He enjoys the SCUBA diving that goes along with his research.

'83

Jay Todesco, LLB, has been appointed corporate solicitor by Asamera Inc., an independent international company engaged in exploration for and production of crude oil, natural gas and minerals.

Graywood L. Cook, BComm, passed the 1987 UFE and is employed by the Auditor General of Canada.

Julene Madill (Cook), BEd, is enjoying teaching school in Red Deer.

Kathy Simard (Farquharson), BComm, who was married in 1986, works at Alberta Hospitals and Medical Care.

Wendy Hatton (Meronek), BEd, taught school in Calgary and attended the U of C part-time before obtaining her current teaching position with the County of Wheatland in southern Alberta.

Mark Odegard, BSc(Eng), was recently named to the position of sales engineer by Barber Engineering and Controls Ltd. of Edmonton.

Carol Sullivan, BSc(HEC), is the Lethbridge regional officer for Alberta Consumer and Corporate Affairs.

Manoj Misra, PhD, is doing research in cell biology at Duke University in Durham, North Carolina.

Gary Vivan, BSc, is a project

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Basic responsibilities include: advising patrons regarding services and facilities, assisting students to identify and locate career information, directing visitors to appropriate resources and personnel, and assisting Career and Placement Consultants with programs and projects in an administrative capacity.

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Are You Unemployed?

Do you require assistance in making yourself more saleable in the competitive job market? If you do and you are a University of Alberta graduate, plan to attend the **Alumni Employment Seminar** scheduled for 28 - 30 March 1988 on campus.

Limited to 15 alumni, this "hands-on" seminar will be conducted by experts from the University's Career and Placement Services and will cover the following areas:

- **Self-assessment** (including how to analyze your skills, how to evaluate the job market specific to your individual skills and personal needs, and how to gather information on the job you desire);
- **Resume Writing** (including how to write covering letters and how to complete job applications); and
- **Interview Tips** (with mock interviews).

Cost for this three-day seminar is \$30 per person. If you are an unemployed alumnus, register by contacting:

Office of Alumni Affairs
430 Athabasca Hall, University of Alberta
Edmonton, Alberta T6G 2E8
(Telephone 432-3224)

geologist with Noranda Exploration Company Ltd. in Timmins, Ontario.

Mary Jane Kushniruk, BA, is practicing with the Vancouver, B.C. law firm, Fraser and Company.

C. Tracy Degenstein, BSc(Nu), is part of the neonatal transport team at Toronto's Hospital for Sick Children.

Gerard Liston, BEd, '80 BA, writes that he's "offering alternatives to abortion outside Washington, D.C.'s busiest abortion mill."

Christian Mordhorst, MEng, earned an MSc in soil mechanics at Imperial College, London, U.K. and is now employed with Cook, Pickering and Doyle Ltd. in Vancouver, B.C.

Catherine Ann Page (Hotke), MD, '81 BMS, and her husband live in State College, Pennsylvania, where she is "engaged in private family practice at home" with a son born in July.

Barbara Ann Helander (Clark), MSc, has recently been promoted to the position of purchasing agent for Playtex Ltd.

A Way of Remembering

The **Library Trust Fund** was inaugurated by Myer and Barbara Horowitz as an imaginative way of recognizing special occasions and at the same time contributing to a worthwhile cause.

A donation to the **Library Trust Fund** helps purchase the kind of books (often fine printing from private presses) that support the Library's major collections but that are difficult to fund from regular sources.

Anyone who would like to commemorate or celebrate an occasion—an achievement of their own or someone else's, a retirement, a birth, a death—may make a donation to the Fund. That special occasion is then marked through purchase of a book, which is identified with a bookplate inscribed as the donor wishes. Where possible, the Library also informs the person being honored.

The Library benefits doubly from donations to the Fund, since they are matched by the Alberta government.

Malcolm Imray, BSc(Eng), completed a master's degree in aeronautical engineering at Carleton University and has been working in Ottawa for two years as a propulsion systems analyst with GasTOPS Ltd., a private engineering firm specializing in engineering related to gas turbines.

Gary Chmara, MEd, '73 BEd, and **Mary Elizabeth Chmara**, '86 MEd, '79 BEd, now live near Eaglesham, Alberta having taken over the family farm. In addition, Mary Elizabeth has obtained a teaching position.

Joyce Price, BPE, married in 1986, teaches junior high physical education and science in Stettler, Alberta.

Borys Hoshowsky, BSc(Pharm), '80 BSc, went to an internship in Akron, Ohio after completing his MD in Calgary. Next comes a general surgical year in Los Angeles and residency in otolaryngology at the University of Toronto.

'84

Sheri Lynn Germaniuk, BSc(Pharm), is a representative for Investors Syndicate and a part-time pharmacist in Edmonton.

Connie L. Hall, MLS, '74 BA, has been appointed the librarian for the Tyrell Museum of Paleontology, Drumheller, Alberta. "Am pleased to represent Alberta—as a U of A grad—at this world-class research institution!"

Mark Thomas Brostrom, BSc(Eng), is a research investigator in the research and development department for Stelco Inc. at Edmonton Steel Works.

Calvin Klatt, BSc(Eng), works as a systems engineer at CAE Electronics in Montreal. "Friends welcome to look me up."

Pamela Quon, BComm, who received her CMA designation last year is employed as a business systems analyst for AGT.

Laurie Jackson, MEd, '76 BSc, is public affairs project officer at NAIT, Edmonton.

Elaine Hughes, LLB, '80 BSc, received a Viscount Bennett Scholarship from the Law Society of Alberta and is studying environmental law at UBC while on leave from the Edmonton law firm Chomicki Baril.

Deborah Yedlin, BA, after post-graduate studies at

Queen's University, is now working as a financial analyst in the investment banking division of Goldman, Sachs and Co. in New York City and enjoying it very much.

Jennifer McGavin, BSc(PT), is a physiotherapist at Vernon Jubilee Hospital and enjoying the fruit and sun of B.C.'s north Okanagan.

Carlos Garcia-Gil, PhD, is teaching Spanish language, literature and civilization at Mount Allison University in Sackville, New Brunswick.

Cornell Pidruchney, BSc, worked at the Canadian Pavilion in Japan's Tsukuba '85 Science Exposition and then travelled and studied in China for six weeks before returning to Canada and working at the Alberta Pavilion at Vancouver's Expo '86. Seduced by the West-Coast lifestyle, he remained in Vancouver where he is now export manager of a trading company selling Canadian gourmet foods to Japan. "In my free time, I study in preparation for my upcoming return to and conquest of China, and enjoy recreating in, on, and above the fluid elements."

Marijan Salopek, MA, '79 BComm, '76 BA, lectures in history at Grant MacEwan Community College, Edmonton. **Richard Craig**, BA(RecAdmin), is working in the areas of parks planning and operations for Alberta Parks and Recreation. **Michael Crothers**, BSc(Eng), after working with Cominco Ltd. for three and one-half years and commissioning a new ammonia plant near Joffre, Alberta, has begun work with Shell Canada's process engineering group.

Wei Chou Ouyang, BA, has been promoted to senior manager, international trade in the Toronto office of Gates to China Inc.

'85

Arthur Meyer, MBA, '79 BSc(Eng), has been appointed manager, oil movements by Trans Mountain Pipe Line Company Ltd.

Sabah Yacoub Mansour, PhD, is now associate professor of electrical engineering at Lakehead University in Thunder Bay, Ontario.

Carol Ann Emir-Ahmet, BEd, is a bilingual grade four and French extension teacher at Lymburn Elementary School,

Edmonton.

Dawn Green Shelton, BA(RecAdmin), and **Gary Shelton**, '86 BA(RecAdmin), were married in 1987. She is the performing arts advisor for Edmonton Parks and Recreation and he directs the Leduc Boys' and Girls' Club.

Albert Cheng, BSc, is involved in the personal computer business as an engineer in the San Jose, California area.

Elizabeth Worobec, PhD, has accepted a position as an assistant professor of microbiology at the University of Manitoba.

Jan Versendaal, DDS, '76 BSc, '81 BSc, having spent the summer of '81 at the Bamfield Marine Station, has finally given into the lure of the West Coast and opened a dental office in Pitt Meadows, B.C., near Vancouver. "All of my friends who never took the opportunity to visit me in Jasper can now catch me out here."

Caryn Duncan, BA, is doing a master's degree in political science (international relations) at McGill.

Patricia Sundstrom, BComm, is living in Vanier, Ontario and "looking for a good job!"

Marty Proctor, MSc(Eng), '84 BSc(Eng), is a reservoir engineer in Husky Oil's production division in Calgary.

Carmen Fleuren, BEd, is enjoying horse-drawn wagons, Cree jesting, and spectacular sunsets while teaching a grade three-four split class for the Little Red River Board of Education on the Fox Lake Indian Reserve in Alberta.

Andrew MacKay, LLB, '82 BA, reports that he has been enticed away to practice with the Vancouver, B.C. law firm Norton Stewart. "I sail, dive and fly in my spare time."

David Salopek, BSc, is working on his PhD in astrophysics at Massey College, University of Toronto.

Karen-Anne Crowley, BEd, is in her first year of the formation program with Scarboro Foreign Missions and studying theology part-time at St. Michael's College, University of Toronto.

Arlette Sawchuk, BSc(Nu), is kept busy by her two children, one born last year. She and her husband live and farm north of Newbrook, Alberta.

Donna Murchie, BA, has word processing and receptionist duties in an Edmonton office.

Kenneth Mills, BA, a U of A graduate student studying Latin

American history, will receive \$15,000 a year for two years to study at Oxford University as a result of his recent selection as a Rhodes Scholar.

Patrick McGinnis, BSc(Eng), married his high school sweetheart and lives in Calgary, where he works for WestMin Resources.

Elvis Floreani, BSc, is a professional geophysicist employed by a Calgary seismic processing firm.

'86

Brent Maitson, MBA, '73 BSc(Eng), has been named manager of the Flint Electric division of Flint Engineering and Construction.

Janice Kozak, BEd, teaches elementary school extended French for Edmonton Public Schools.

Mike Cubrilo, BSc(Eng), who was married last year, has moved to Slave Lake, Alberta, where he is involved with oilfield specialty chemicals for Welchem Canada Ltd.

Carol Kastelic, BEd, reports from Grande Prairie, Alberta that "teaching jobs can be found!"

Marie-Jeanne Cloutier, MD, '84 BMS, is a resident in obstetrics and gynecology in Calgary.

Albert Laverne, BComm, '81 BA, is studying law at Queen's University. Having spent six years employed in industrial relations in Alberta, he plans to pursue a career in labor law.

Timothy Tam, BEd, has returned to Hong Kong and found a teaching job at a college. "P.S.: I miss all my friends in Canada."

Dana Dolsen, MSc, is a research associate in the University of Idaho's Co-operative Park Studies Unit and the proud father of a one-year-old.

Don Helgeland, BEd, has been a junior-high teacher at Sparling School, Camrose, Alberta since graduation.

Donna Fildes, BA, reports that she has embarked on her greatest adventure yet: generic social work on the Arctic tundra, in a 1,200-person, isolated Inuit community (Eskimo Point).

Howell Williams, MD, '80 BSc, is practicing in the emergency department of Reddy Memorial Hospital, Westmount, Quebec.

Harry Ludwig, LLB, '84 BA, has become associated with the Edmonton law firm Reynolds, Mirth, Richards & Farmer.

Corrine Jehle, BA, is in her first year of studies towards a master's degree in anthropology at McMaster University.

Robert Decker, MSc, is a reservoir engineer in the production department, Esso Resources, Calgary.

Steffany Tayler-Guidotti, MEd, '84 BEd, was recently married to an occupational and pulmonary physician on the U of A's medical faculty, Tee Guidotti, and has just returned from a trip to Australia and New Zealand.

Michael Spangler, BSc(Ag), is on a 13-month agriculture exchange to New Zealand and Australia.

'87

Charmaine Gorrie, MA, '84 BA, is attending UBC in a classical archeology PhD program. She has had four summers on a dig in southern Italy and enjoyed every minute.

Sherman Wu, BSc, returned to Hong Kong and is now a teaching assistant in the department of computer studies at City Polytechnic of Hong Kong.

Janet Dubois, BA, of Edmonton was married in 1987 and has one son.

Paul Heersink, BA, worked as a researcher at Alberta Hospital Edmonton before moving to Toronto last April. He now works in an employment training centre for mentally handicapped adults.

Anne-Sonia Loach, BPE, who spent some months as a development specialist with the Gateway Association for the Mentally Handicapped and now lives in Saint-Eustache, Quebec, reports that since August she and her husband have been a *famille d'accueil*.

Sung-Chi Chow, BSc, is a first-year MBA student at State University of New York, Buffalo.

Chris Korte, BEd, reports having landed a teaching job with Blessed Sacrament School in Wainwright, Alberta.

Darcia Haydey, BSc(Pharm), has worked in retail pharmacy since graduation, first in Peace River and now in Edmonton (Millwoods).

Lisa Marie Hardy, BA, is enrolled in a BSW program at the U of Western Ontario.

Dulcie Howard, BEd, teaches grade one in Slave Lake, Alberta and is enjoying the school and the town.

1988 DISCOVERY ADVENTURES

University of Alberta Alumni Association



CHINA/YANGTZE RIVER ADVENTURE \$5,779/Vancouver*

May 21 to June 7, 1988

Come explore Peking's Forbidden City, where the imperial dynasties of China ruled from golden palaces. Walk on the great Wall, see the Temple of Heaven, the Summer Palace and the Ming Tombs. Explore Chongqing and the fascinating Imperial Tomb at Xian, with its life-sized army of terra-cotta warriors. Cruise the Yangtze River and experience the three famous river gorges. You'll also visit Shanghai and Hong Kong. Choose the comfortable and convenient way to see the fascinating sights of the People's Republic of China.

DUTCH WATERWAYS ADVENTURE \$4,349/Edmonton*

June 10 to 23, 1988

See Holland from the best vantage point—the water. Sail on your own chartered ship from Amsterdam through a land of canals and tulips, rivers and windmills, lakes and dikes. See traditional Dutch costumes and old-world villages. Visit the historic Dutch towns of Marken, Hoorn, Enkhuizen, Staveren, Urk, Kampen, Deventer and Arnhem on a six-night cruise. Then, after three nights in Paris, board the high speed TGV bullet train to Montreaux, Switzerland on the shores of majestic Lake Geneva.

SEA GODDESS

\$6,799/Edmonton*

July 21 to August 1, 1988.

Plan to join this rare pursuit of elegance, romance and fantasy with an all-inclusive cruise on the SEA GODDESS—an incredible experience of luxury yachting on the French and Italian Rivières. The SEA GODDESS, recently chosen "Ship of the Month", offers the freedoms and pleasures of a private yacht; its capacity is just 58 couples. Visit the ports of St. Tropez, Livorno (from here you'll visit Pisa and Florence), Santa Margherita and Portofino. After you disembark, enjoy four nights at a five-star hotel in Paris. Then its off to Lyon for a sumptuous meal at the fabled Paul Bocuse Restaurant before you finish your dream vacation in Monte Carlo.

CRUISING GREECE AND TURKEY \$4,095/Edmonton*

October 9 to 20, 1988

Join in this fascinating journey to the exciting lands of Greece and Turkey. Begin in Athens, home to extraordinary museums, classical Greek art and the world's most famous archeological site, the hill of Acropolis and the Parthenon. Then board the gleaming flagship of the Sun Line, the STELLA SOLARIS. Cruise for seven nights through beautiful and fascinating waters. Sail to Crete, cruise through the Dardanelles to Istanbul and call at Kusadasi before leaving Turkey. Also visit the Greek Islands of Rhodes, Santorini, Delos and Mykonos before disembarking in Piraeus.

For more information about the 1987 Discovery Adventures, please contact the Office of Alumni Affairs, (403) 432-3224.

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